

**NIPSON**

**User Guide**

**USER GUIDE PS-RIP HARLEQUINRIP8.0R0**



# User Guide

## USER GUIDE PS-RIP HARLEQUINRIP8.0R0

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### SOFTWARE

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## Preface

The software **PS\_RIP NIPSON\_HarlequinRIP8.0r0** allows PostScript (**PS**) and Portable Document Format (**PDF**) files to be printed on **NIPSON printers**. The software features are:

- An **HarlequinRIP8.0r0** RIP kernel from **Global Graphics**,
- PS 3 compatibility,
- PDF 1.3, 1.4, **1.5, 1.6 et 1.7** compatibility,
- Page layout according to **NIPSON VPPSLayout** application.

This software is a part of the printing server offer **Nipson PrintServer Version 5.0**.

This software is in fact, thanks to **CompPsRipToNpp** module, a composer for the printing spooler **Nipson PrintServer**. It can be used in two different ways :

- in **external composer** (thus manual),
- in **integrated composer** : In this case, **PS\_RIP** application becomes a job composer unit controlled automatically by the composition spooler of **Nipson PrintServer**. Many stations configurations exist in these two cases. Report to **NipsonPrintServer\_&\_PsRip\_us.pdf** documentation for a presentation of these several configurations.

In the continuation of this document, the term '**CompPsRipToNpp**' is also used and is equivalent to **PS\_RIP NIPSON\_HarlequinRIP8.0r0**. This term indicates that one speaks about **PS\_RIP** integrated in **Nipson PrintServer**.

This new version contains a new plugin : **NPP** which uses the new **NIPSON** printers **NPP** protocol. For reasons of compatibility, they can use thanks to '**SDP option**' the old **CompPsRip** composer associated with old **EnhSDP** and **SDP** plugins.

The **RIP for NIPSON\_HarlequinRIP8.0r0** exists only in English.



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# 1. Introduction

**PS\_RIP NIPSON\_HarlequinRIP8.0r0** is an easy-to-use software, the purpose of which is to print **PS** files (PostScript) or **PDF** files (Portable Document Format) on **NIPSON** magnetographic printers. It thus takes a **PostScript** or **PDF** file as inputs and produces files in **NPP** protocol understandable by NIPSON printers.

## Contents of this document:

Chapter 2, « Getting started », explains how to install or remove the product.

Chapter 3, « Configuration and Customization », details how to configure the product.

Chapter 4, « Using NIPSON plugins », explains how to use and parameterize new NIPSON Plugins : the new **NPP** plugin, the **EnhTIFF** plugin as well as the old optional **EnhSDP** and **SDP** plugins.

Chapter 5, « Job processing », explains how to use **NIPSON\_HarlequinRIP8.0r0** to process the job to print.

The **HarlequinRIP8.0r0** from **Global Graphics** (integrated in **NIPSON PS\_RIP** product) contains much functionality. They are not all used for jobs printed with the NIPSON printers. This documentation concerns principally features linked to use in the NIPSON context. For more details about **NIPSON\_HarlequinRIP8.0r0 RIP**, please refer to documentation provided in the same package. This documentation is automatically copied during installation.



## 2. Installation

### 2.1 HARDWARE AND SOFTWARE REQUIREMENTS

#### Hardware

You require a PC computer with at least the following hardware specifications:

- A **Pentium 4** processor minimum **2 GHz**.
- **1024 MB amount of RAM**.
- A local hard disk with 40 gigabytes space.
- A free USB port to which you can connect a dongle.
- A CDROM drive.
- A network connection.

In the case of an installation on a **Nipson PrintServer Printing Server**, report to the **NipsonPrintServer\_&\_PsRip.pdf** documentation for a more precise description of the needed hardware.

#### Software

The computer must run on **Microsoft Windows 2000** with service pack 4 at least or **Microsoft Windows XP** or **Microsoft Windows Server 2003** or **Microsoft Windows Vista**.

**All the products are to be installed as SPOOLADM (account with Administrator rights).**  
If this account doesn't exist, it must be created.

## 2.2 PS\_RIP NIPSON\_HARLEQUINRIP8.0R0 INSTALLATION

The **NIPSON\_HarlequinRIP8.0r0 PS\_RIP** product are to be installed from **CD-ROM VPServer**.

Install also the complementary products **VPPSLayout** and **VPPSViewer**.

With the **SDP option** of the **PS\_RIP** product, install also the old **Genlist32** product.

All these product are on this same CD in the directory :

### **\UTSP081-f\Windows (basic VPServer)**

The installation of the **NIPSON\_HarlequinRIP8.0r0 PS\_RIP** product is done into only once. **NIPSON** specific Plugins are installed at the same time as **Harlequin RIP**.

**Starting the installation of PS\_RIP NIPSON\_HarlequinRIP8.0r0 product:**

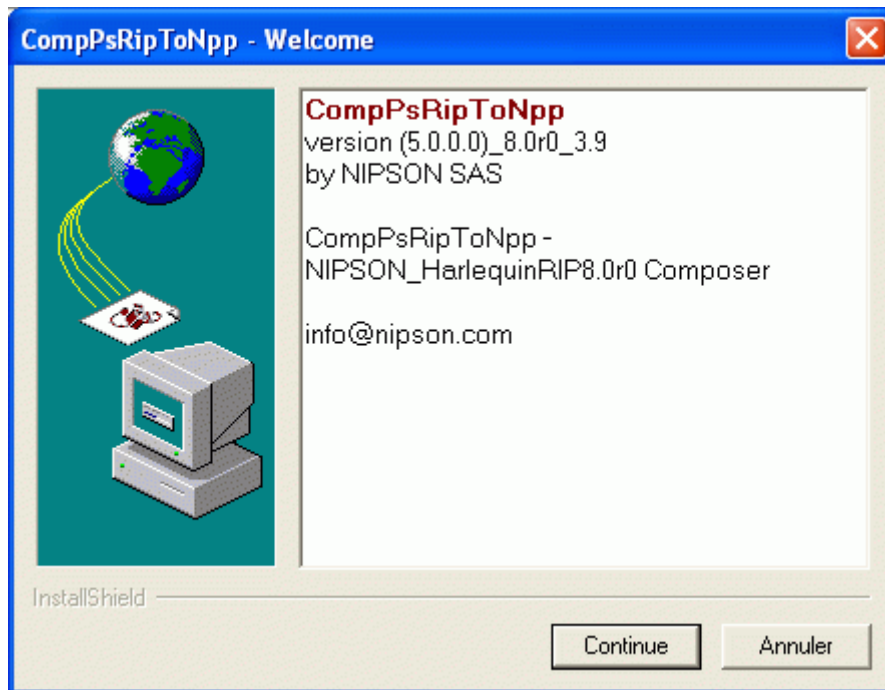
On the **CD-ROM VPServer**, go to the directory:

### **\UTSP074-f\Windows (PS-RIP option)**

To start installation, click on **CompPsRipToNpp(5.0.0.0)\_8.0r0\_3.9.exe** (or higher version).

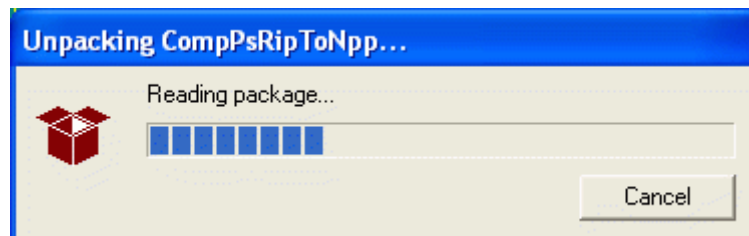
## Installation

At the installation start which is an auto-extractible file, a first window appears indicating the product contents:



*Figure 2-1 PS\_RIP installation: Product contents*

During installation files extraction, the following window is displayed:



*Figure 2-2 PS\_RIP installation: Installation files extraction*

At the start of the installation, a first window makes it possible to select the installation language :

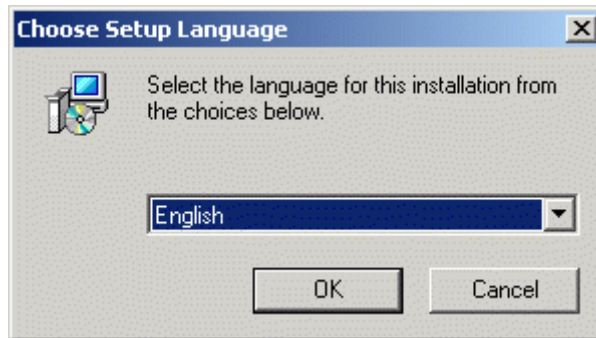


Figure 2-3 PS\_RIP installation: Language selection

During initialization of the installation, the following window is displayed:

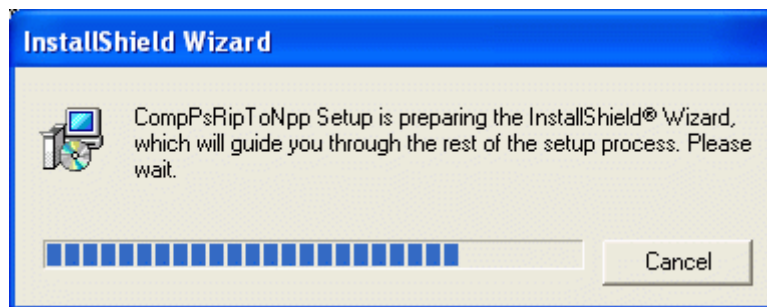


Figure 2-4 PS\_RIP installation: Initialization

A message is displayed then recalling that any other NIPSON composer should imperatively be stopped :

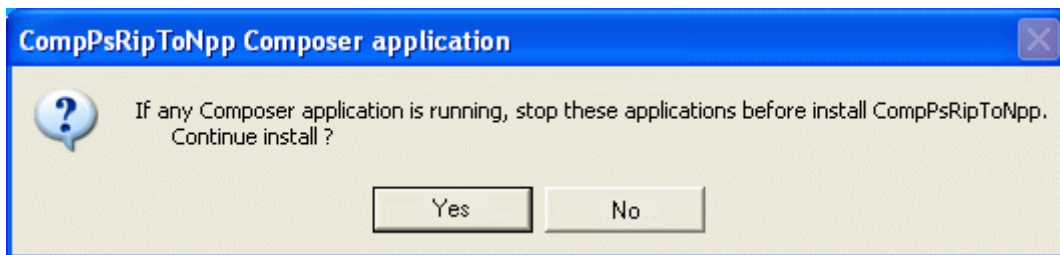


Figure 2-5 PS\_RIP installation: Stop Composers

The following window indicates that one is ready to start the installation:

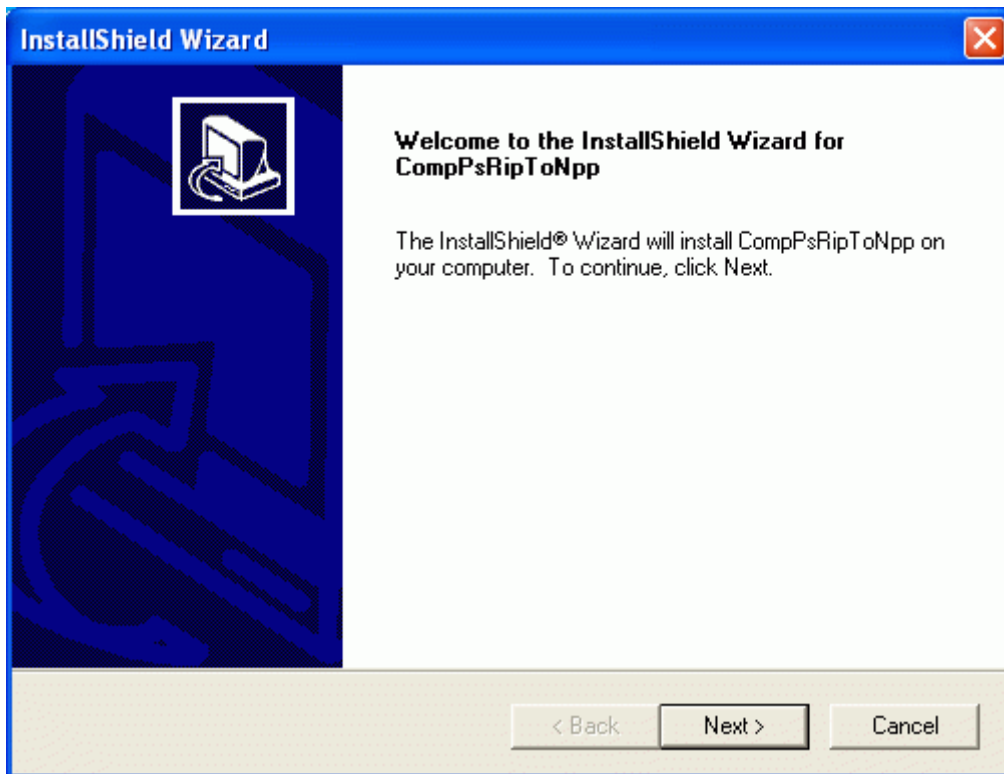


Figure 2-6 PS\_RIP installation: Welcome

Installation of **PS\_RIP** product comprises in fact the installation of 3 components (or 4 if the '**SDP option**' is requested) requiring several destinations :

1. The **Harlequin RIP** itself including the **Plugins**, the screens for dithering, etc...
2. The **Harlequin RIP** complements : '**License Server and License Manager**', those manage product using licenses. These are installed in a predefined not modifiable location:  
**'C:\Program Files\Common Files\Global Graphics Software\'**  
 Nothing is asked for the installation of these software complements.
3. A Microsoft module necessary for **Harlequin RIP** : '**Microsoft Visual C++ 2005 SP1 Redistributable**'.
4. If the '**SDP option**' is requested : Objects (Genlist parameters list, character fonts, etc...) placed in an organization compatible with **NIPSON OpenPage** server so that the SDP composition toolbox integrated in the **EnhSDP** and **SDP** plugins (common software module with **NIPSON OpenPage** server) can run correctly.  
 Those are installed in a directory tree:  
**'\usr\lib\openpage\object...'**  
 and thus only the destination disk is required.

A first dialog box allows to select the **setup type** wished among two options :

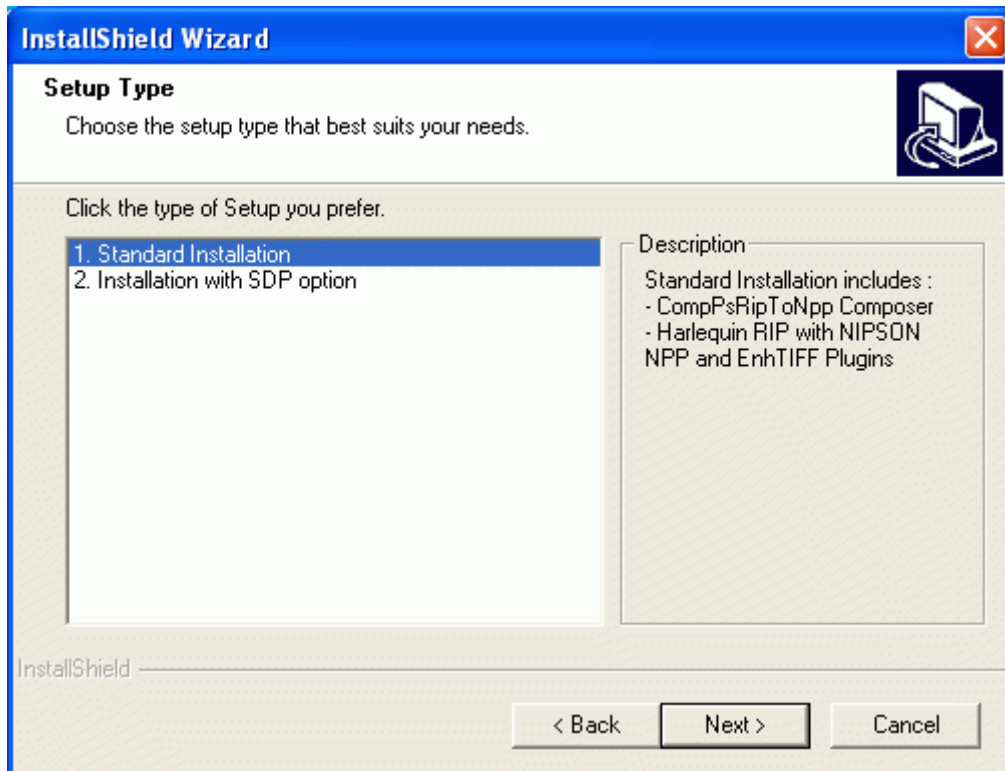
**Option 1 : Standard installation** including :

- the installation of the **CompPsRipToNpp** composer,
- the installation of the **Harlequin RIP** with **NPP** and **EnhTIFF** NIPSON Plugins.

**Option 2 : Installation with SDP option** including :

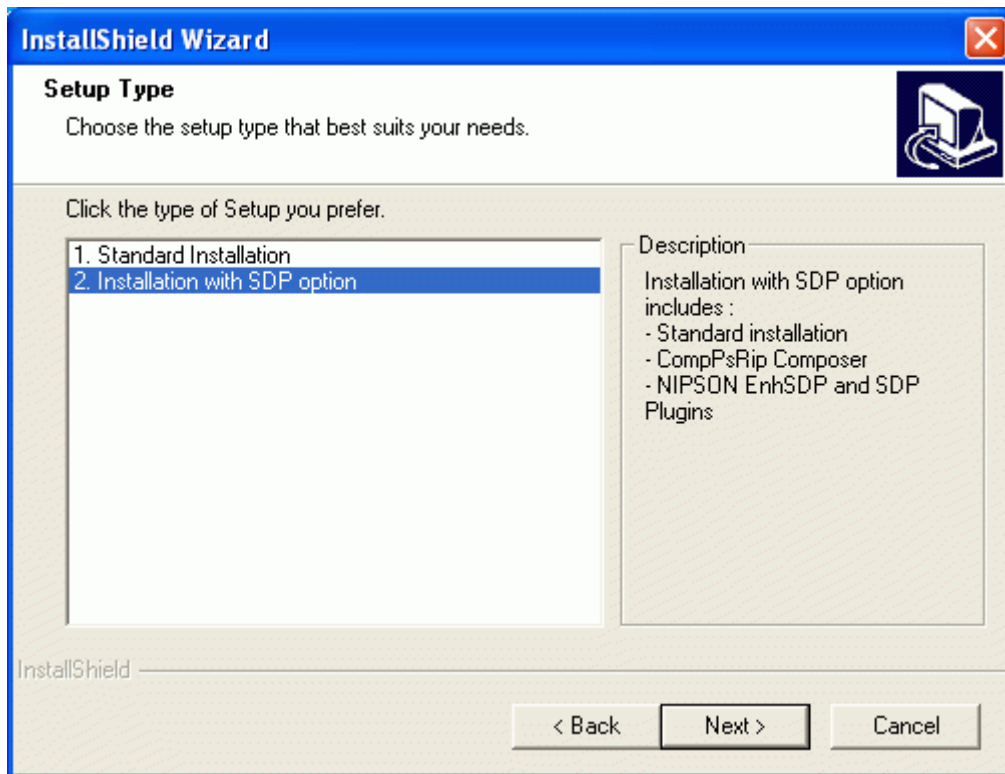
- the installation of the **option 1**, plus
- the installation of the **CompPsRip** composer,
- the installation in the **Harlequin RIP** of the **SDP** and **EnhSDP** NIPSON Plugins.

The window below shows the case of the standard installation selection :



*Figure 2-7 PS\_RIP installation : Standard installation selection*

The window below shows the case of the installation with **SDP option** selection :



*Figure 2-8 PS\_RIP installation : Installation with SDP option selection*

Install **SDP option** only if you like to use NIPSON printers having no **NPP protocol**.

A second dialog box allows to indicate where the **NIPSON\_HarlequinRIP8.0r0** RIP will be installed. By default, the destination folder:

**'C:\Program Files\Nipson\Nipson\_HarlequinRIP8.0r0'**

is proposed. If you have no specific reason to install the product elsewhere, maintain this proposed Destination Folder.

In the case of **Windows Vista**, it is disadvised to install **NIPSON** products in the directory **'C:\Program Files'** pointed out above. In that case, the directory :

**'C:\Nipson\Nipson\_HarlequinRIP8.0r0'**

is proposed.

If this destination folder is appropriate, click on **Next**, else use **Browse...** to select another folder (the **NIPSON\_HarlequinRIP8.0r0** RIP can be installed on another disk than disk C:).

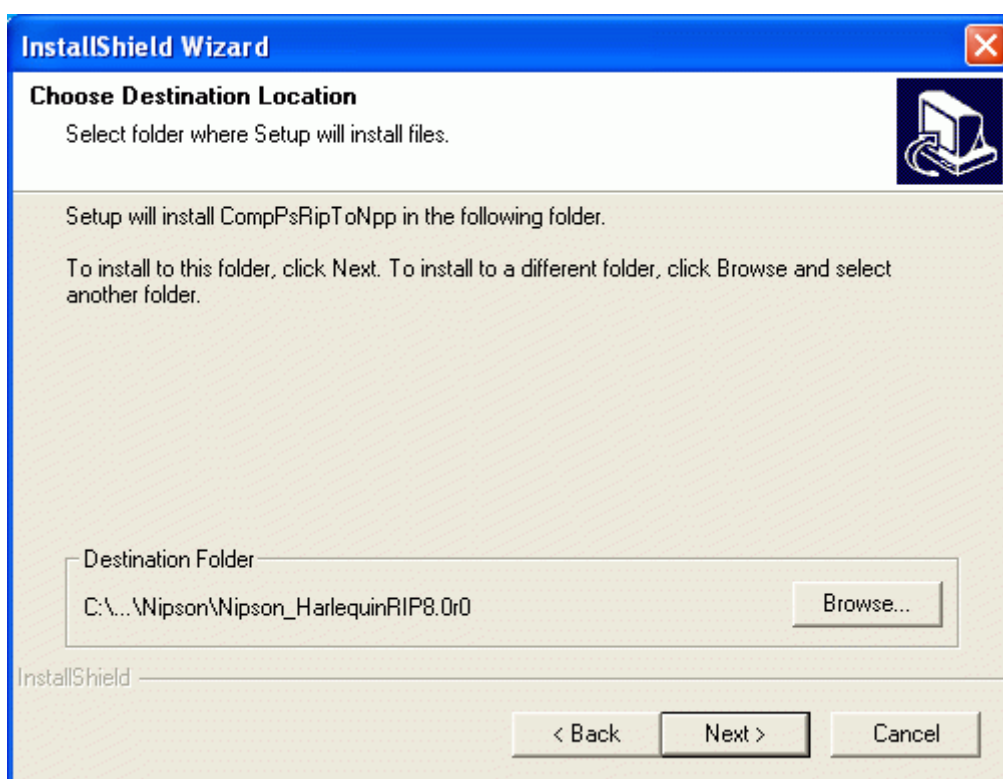


Figure 2-9 PS\_RIP installation: Installation directory selection

If you choose another installation place, it is recommended to keep tree members **'Nipson\NIPSON\_HarlequinRIP8.0r0'** in your new installation directory. Example :

**'D:\My Installation\Nipson\NIPSON\_HarlequinRIP8.0r0'**

Note that under this folder, the following sub-directories will also be installed:

1. A **'Documentation'** directory, which contains all **RIP Harlequin** documentation including the user manual **'oem\_manual.pdf'**, placed in the sub-directory **'User'**.
2. A **'Sentinel'** directory which contains the installation program of **Sentinel System Driver V7.4.0** which is necessary for the management of protection dongle of **Harlequin RIP**.
3. A **'CompPsRipToNpp'** directory which contains the **'CompPsRipToNpp'** composer application used in the case of a **'Nipson PrintServer'** configuration.

## Installation

4. If the SDP option is requested, a **'CompPsRip'** directory which contains the **'CompPsRip'** composer application used in the case of a **'Nipson PrintServer'** configuration.

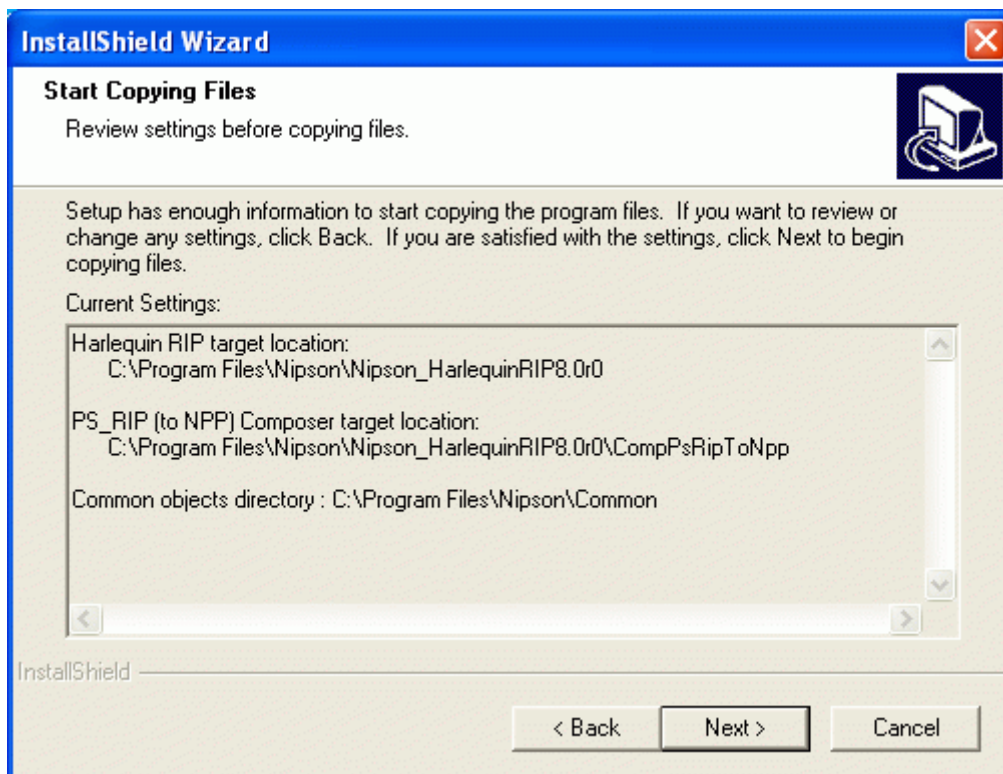
After having selected the installation directory of **NIPSON\_HarlequinRIP8.0r0 RIP**, three cases may occur:

**1<sup>st</sup> case** : Case of the standard installation :

In that case, they have all information necessary for the installation.

Une boîte de dialogue récapitule alors les informations concernant l'installation de **RIP NIPSON\_HarlequinRIP8.0r0**, par exemple :

A dialog box summarizes information about the **NIPSON\_HarlequinRIP8.0r0 RIP** installation, for example:



*Figure 2-10 PS\_RIP installation: Chosen configuration*

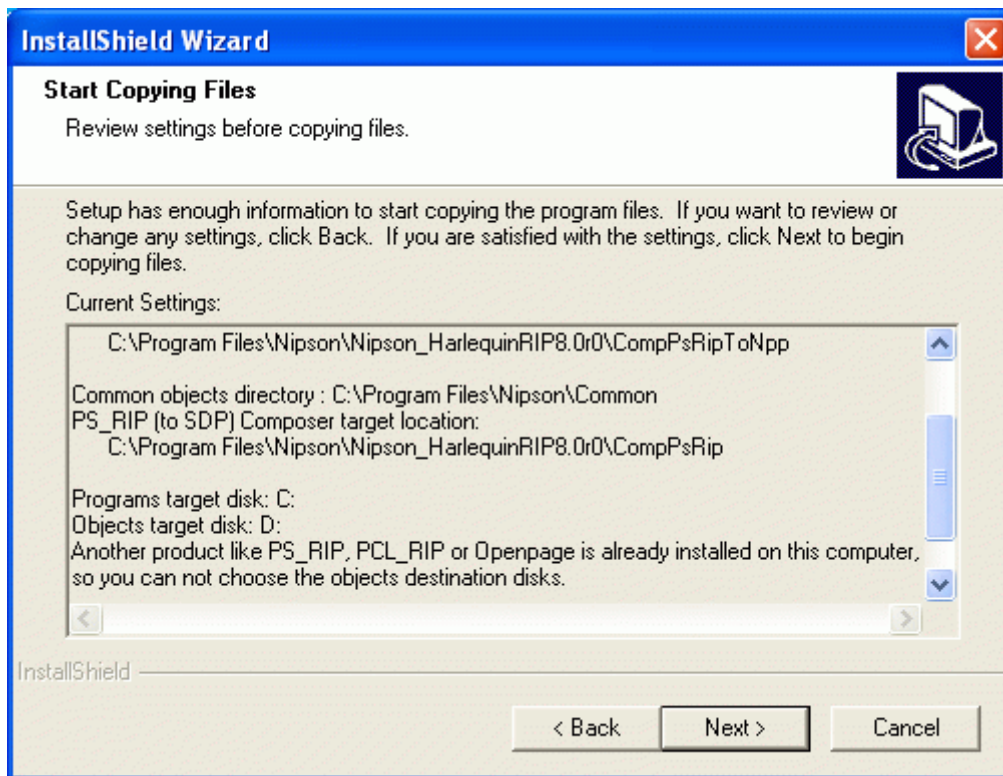
To modify the previous choices, press on '**Back**' button.

To start the installation, press on '**Next**' button.

**2<sup>nd</sup> case :** Another version **PS\_RIP**, another **SDP type composer**, **NIPSON OpenPage** or **PCL\_RIP** is soon present on the station :

In this case, the objects, which are common to **PS\_RIP**, **SDP type composer**, **NIPSON OpenPage** or **PCL\_RIP**, have already preset destinations. This information is contained in Windows Registry, is thus not modifiable and is taken into account automatically.

A dialog box summarizes information about the **NIPSON\_HarlequinRIP8.0r0 RIP** installation, for example:



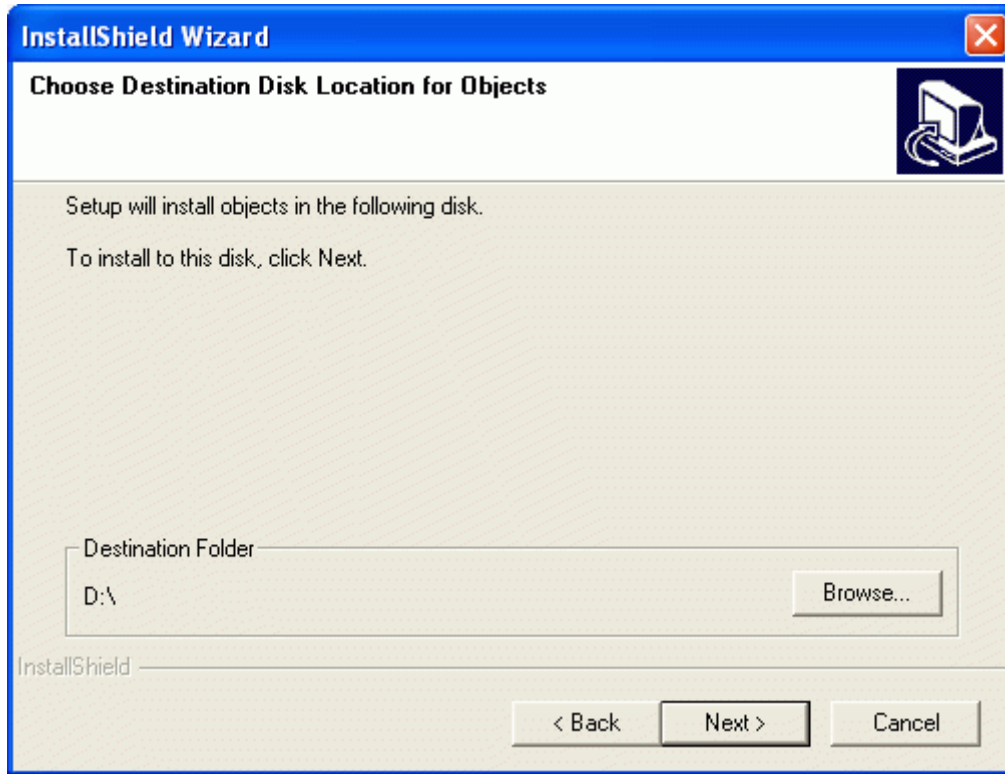
*Figure 2-11 PS\_RIP installation: Chosen configuration*

To modify the previous choices, press on '**Back**' button.

To start the installation, press on '**Next**' button.

**3<sup>rd</sup> case :** Any other **PS\_RIP** version, neither **SDP type composer**, nor **NIPSON OpenPage**, nor **PCL\_RIP** are present on the station:

In this case, a dialog box will require the disk destination for the SDP objects. By default, the SDP objects are installed on the disk 'D:\', but this destination disk can be modified.

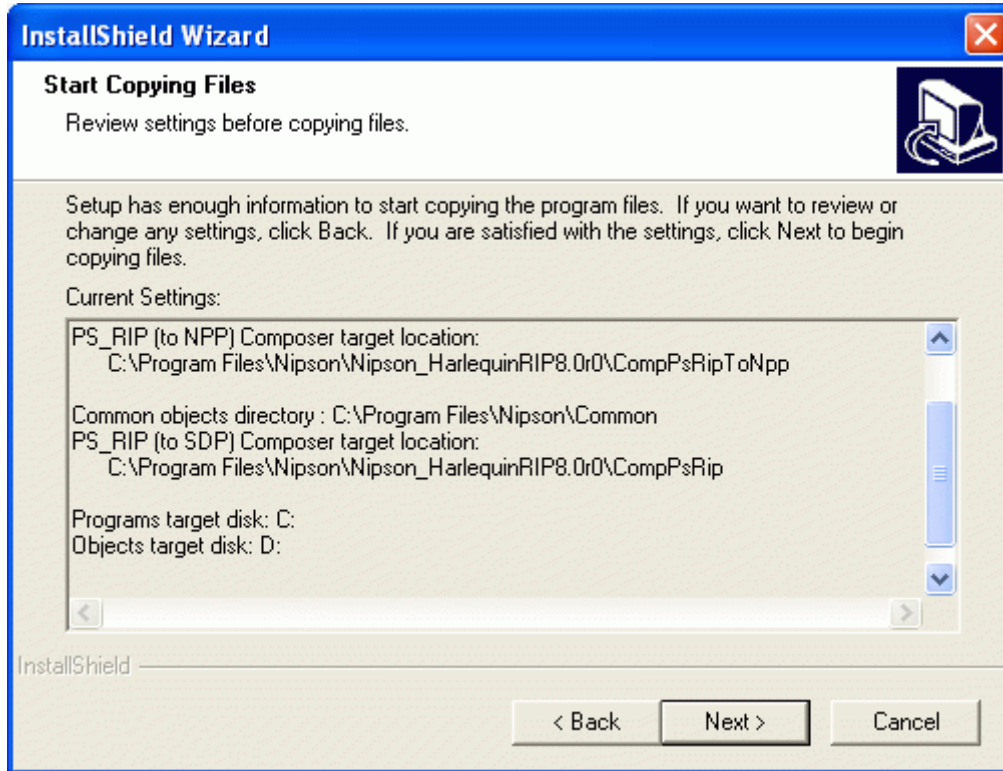


*Figure 2-12 PS\_RIP installation: SDP objects destination disk*

To modify the previous choices, press on '**Back**' button.

To continue, press on '**Next**' button.

A new dialog box summarizes the previous choices:



*Figure 2-13 PS\_RIP installation: Chosen configuration*

To modify the previous choices, press on '**Back**' button.

To start the installation, press on '**Next**' button.

The following window shows the progress report of installation.

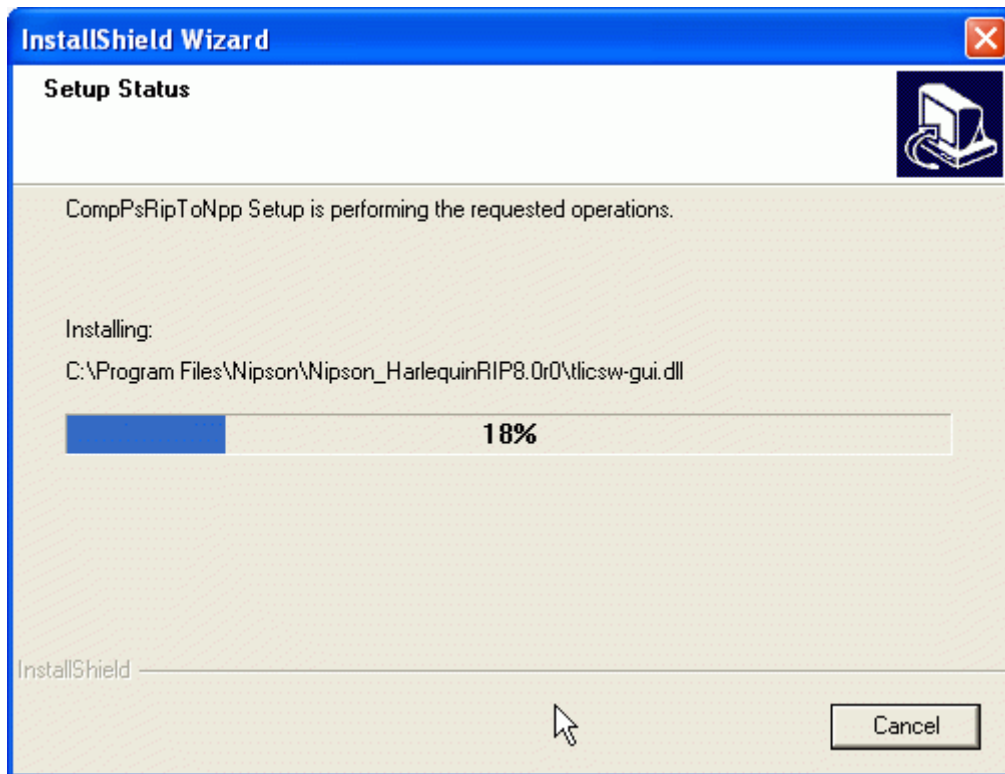


Figure 2-14 PS\_RIP installation: Installation in progress

When the first part of the the installation is ended, program continue by the installation of the module :

**'Microsoft Visual C++ 2005 SP1 Redistributable'**

The installation of this module begins with displaying the following window :

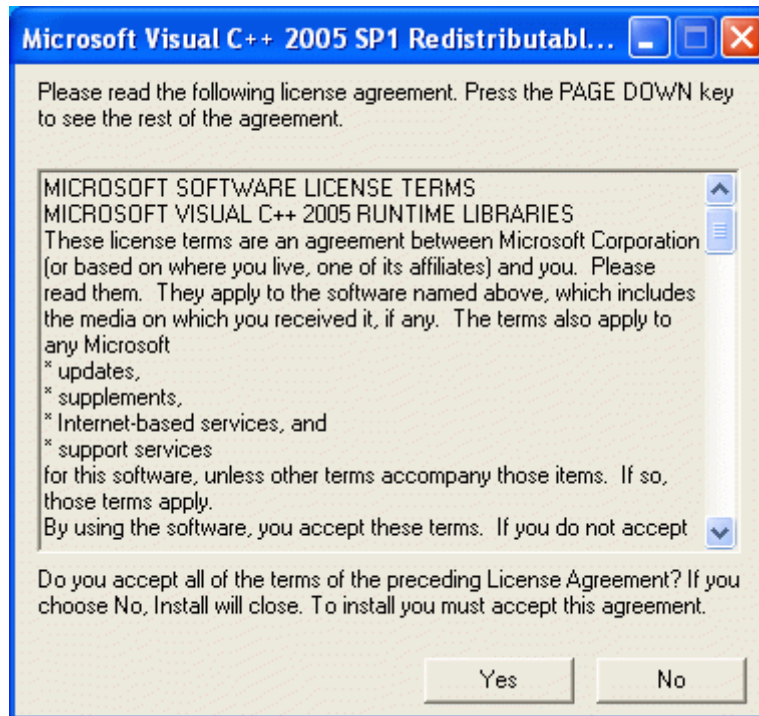


Figure 2-15 PS\_RIP installation : Microsoft module installation

Answer **'Yes'** to continue the installation.

The following window shows the progress of the module installation :

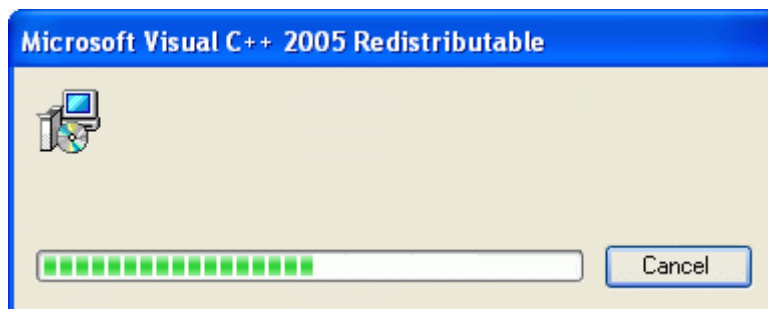
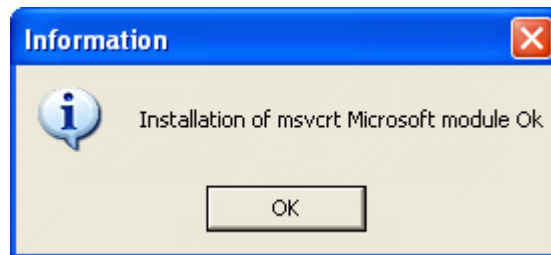


Figure 2-16 PS\_RIP installation : Microsoft module installation in progress

That ends with viewing the following window.



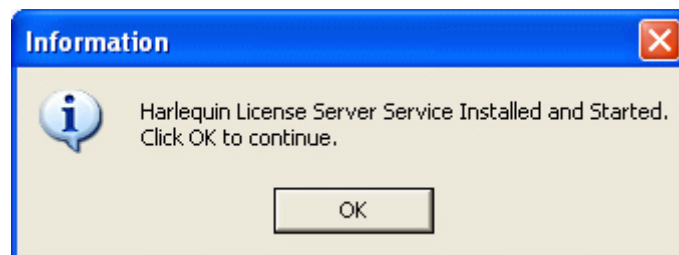
*Figure 2-17 PS\_RIP installation : Microsoft module installation OK*

Click on the '**OK**' button to continue.

The installation continues with automatic creation and startup of the service :

**'Harlequin License Server'**

That ends with viewing the following window:

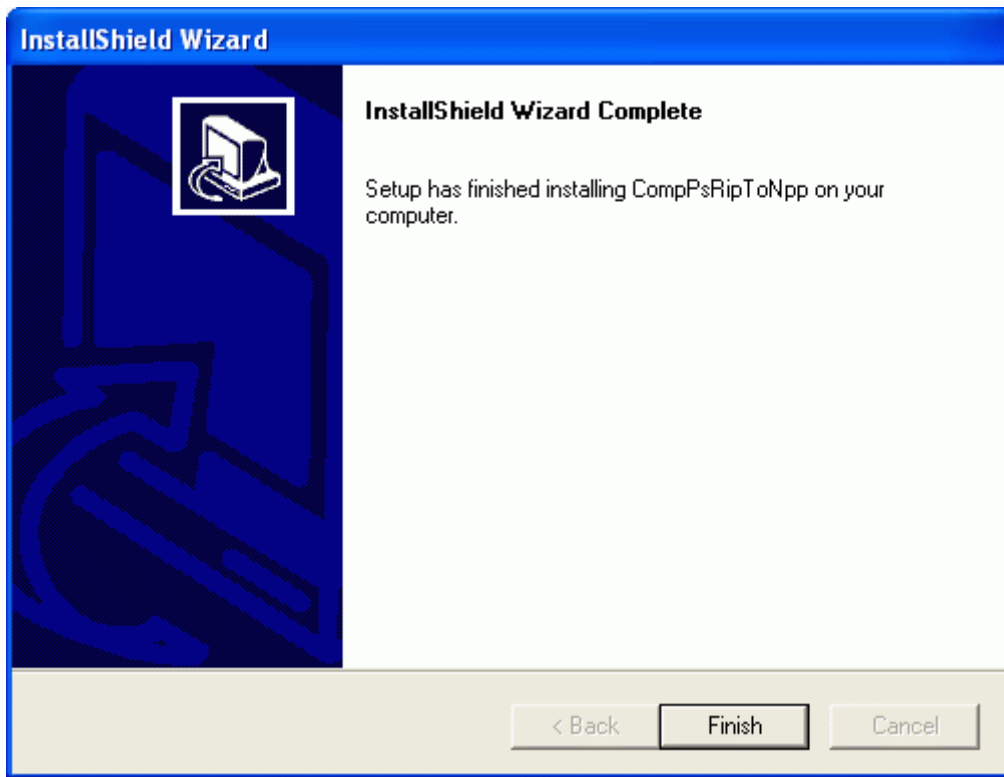


*Figure 2-18 PS\_RIP Installation: Harlequin License Server OK*

Click on the '**OK**' button to continue.

## Installation

When installation is finished, the following window is displayed:



*Figure 2-19 PS\_RIP installation: Installation finished*

The **PS\_RIP** product documentation is then in the sub-directories '**Documentation**', '**Documentation\User**' and '**Documentation\Oem**' in the installation directory previously chosen for the **Harlequin RIP**. Example:

**C:\Program Files\Nipson\NIPSON\_HarlequinRIP8.0r0\Documentation**

## 2.3 SOFTWARE ACTIVATION

Before starting **NIPSON\_HarlequinRIP8.0r0**, it is necessary to first install the '**Sentinel driver**' (the protection dongles manager software). Carry out the installation program, which was copied during installation of **NIPSON\_HarlequinRIP8.0r0 RIP**. The **NIPSON\_HarlequinRIP8.0r0 RIP** requires at least the **V7.4.0** version of the '**Sentinel driver**'. If this one is already installed on your machine, ensure that your version is at least **V7.4.0**, if not, update it as indicated below.

If **RIP Harlequin** were installed for example in the directory  
**C:\Program Files\Nipson\NIPSON\_HarlequinRIP8.0r0**

Go to the directory:

**C:\Program Files\Nipson\NIPSON\_HarlequinRIP8.0r0\sentinel**

Start the program **Setup.exe** and follow instructions.

When the driver installation is ended, insert the protection dongle of **NIPSON\_HarlequinRIP8.0r0** software in the parallel port of PC if the dongle is parallel type or in a not used USB port if the dongle is USB type.

## 2.4 FIRST STARTING OF NIPSON\_HARLEQUINRIP8.0R0 RIP.

To run **NIPSON\_HarlequinRIP8.0r0 RIP**, use the **NIPSON\_HarlequinRIP8.0r0** command of **Start** menu:

**Start->Programs->NIPSON Tools->CompPsRipToNpp->NIPSON\_HarlequinRIP8.0r0**

It is also possible to use **NIPSON\_HarlequinRIP8.0r0** icon on the desktop.

### 2.4.1 First normal starting

At first starting of the **NIPSON\_HarlequinRIP8.0r0 RIP**, the RIP is immediately configured to operate in an optimum way for jobs processing with the plugins for printers NIPSON 480 dpi and 600 dpi.

In particular, the RIP is configured to not use the '**Output Controller**', this decreases from approximately 30% the processing times of jobs.

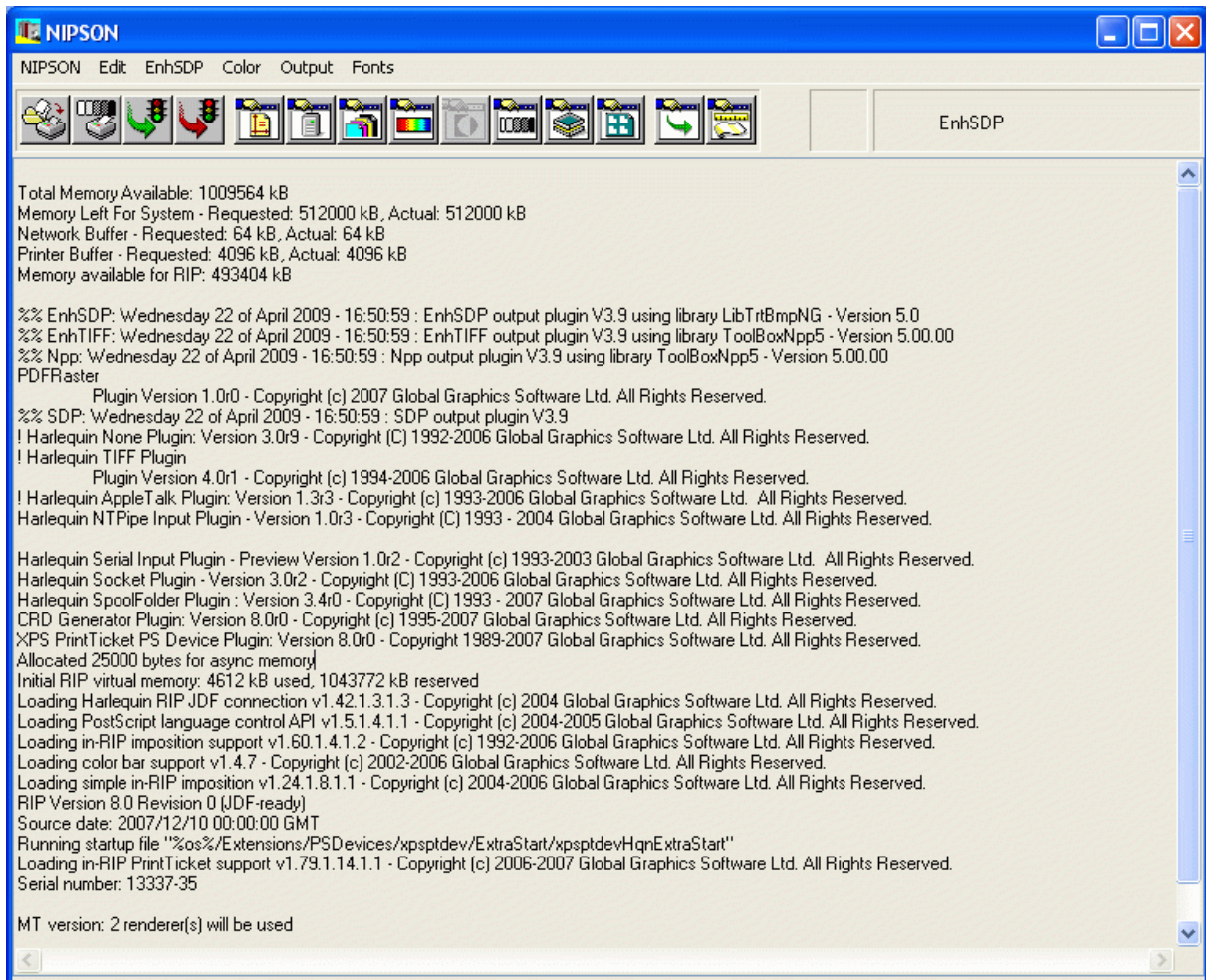


Figure 2-20 Main window of NIPSON\_HarlequinRIP8.0r0

## 2.4.2 Error during the first start

If the station on which **PS\_RIP** product was installed is not a station with an English version of Windows, an error can occur at first start of the **NIPSON\_HarlequinRIP8.0r0 RIP**. The following error message appears:

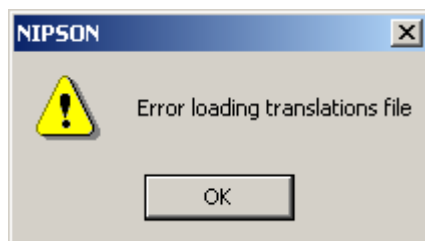


Figure 2-21 PS\_RIP first start: Error

Click on **OK**. The following message appears:

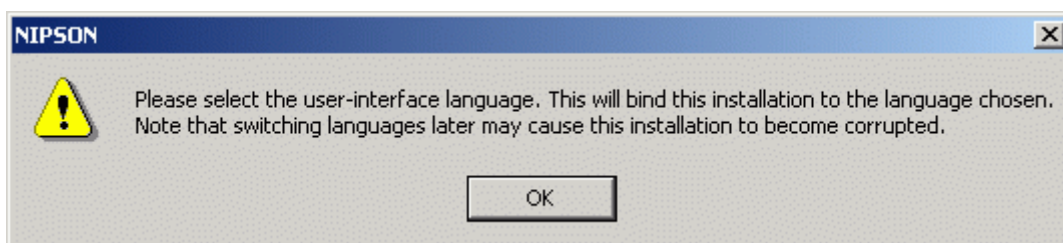


Figure 2-22 PS\_RIP first start: Error

Click on **OK** to reach the dialog box of language selection for **PS\_RIP** product :

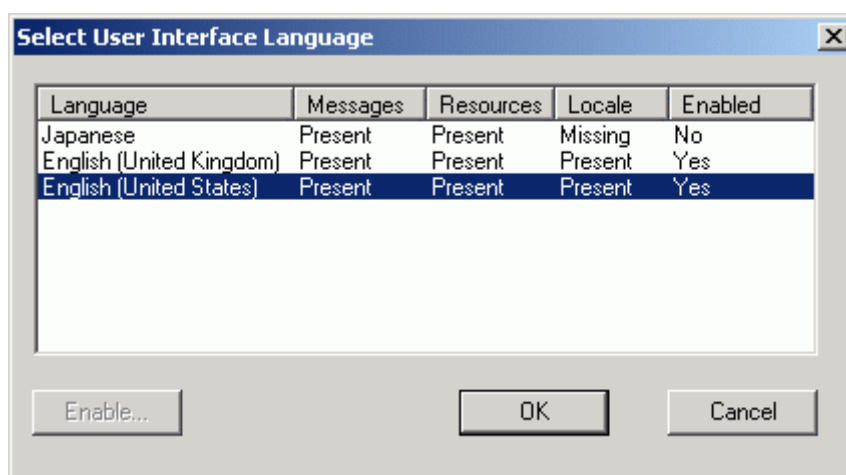
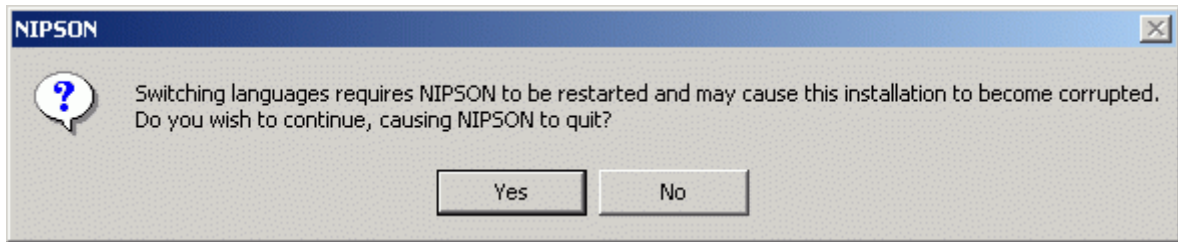


Figure 2-23 PS\_RIP first start: Language selection

Only two choices of English languages are available. Choose the suitable and click on **OK**.

## Installation

A message requiring the language changing appears. Click on '**Yes**' to validate the language.



*Figure 2-24 PS\_RIP first start: Confirmation language switching*

A last message confirming the language changing appears. This one will be effective at next start of the software.

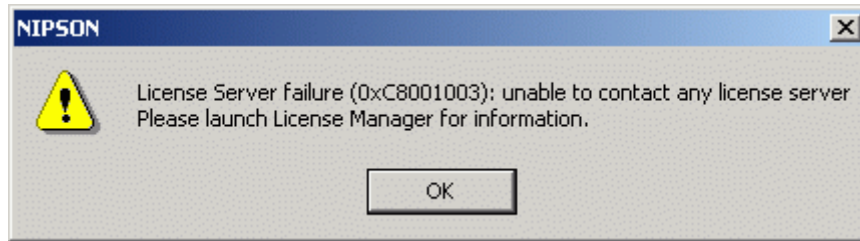


*Figure 2-25 PS\_RIP first start: Validate the restart*

Restart then the **NIPSON\_HarlequinRIP8.0r0 RIP**.

### 2.4.3 Other error during the start

If the following error occurs when starting the **NIPSON\_HarlequinRIP8.0r0 RIP**,



*Figure 2-26 PS\_RIP License Server failure*

followed, after click on **OK** button, by this other message,



*Figure 2-27 PS\_RIP Fatal security device failure*

verify that the **PS\_RIP** product dongle is correctly installed and that the '**Harlequin License Server**' service is installed and started. Use the menu :

**Start->Programs->NIPSON Tools->CompPsRipToNpp->License Manager**  
 (See chapter 2.8)

to correct this problem. Report also at the '**License\_server.pdf**' document in '**Documentation\User**' directory.

## 2.5 NIPSON\_HARLEQUINRIP8.0R0 START MENU

The menu **Start->Programs->NIPSON\_HarlequinRIP8.0r0** created during installation looks as:

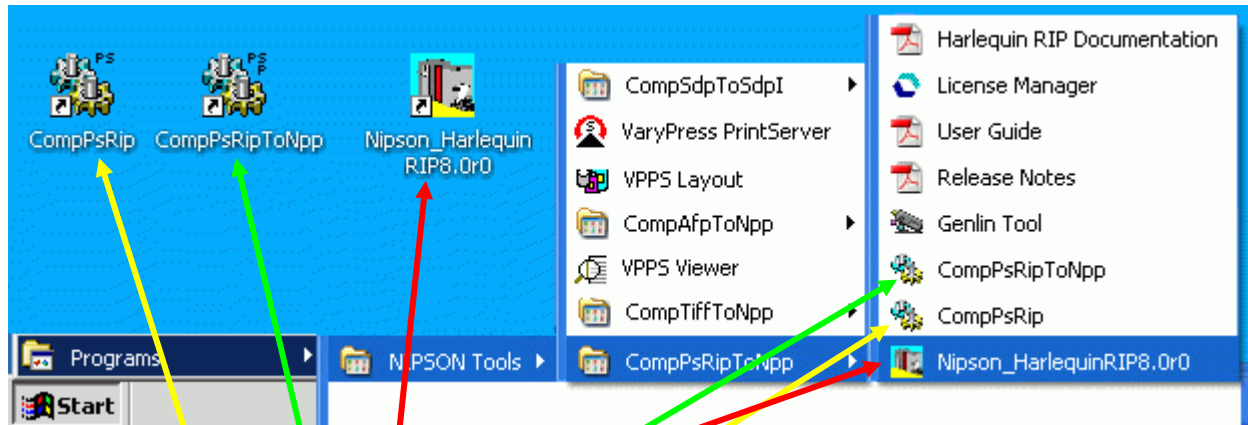


Figure 2-28 Start Menu

- **NIPSON\_HarlequinRIP8.0r0** : It's the **PS\_RIP NIPSON\_HarlequinRIP8.0r0** application. It can be started also with the shortcut created on the desktop.
- **CompPsRipToNpp** : It's the **NPP Composer** application allowing the integration of **PS\_RIP NIPSON\_HarlequinRIP8.0r0** application with Nipson PrintServer. It can be started also with the shortcut '**CompPsRipToNpp**' created on the desktop.
- **CompPsRip** : If **SDP option** is installed, it's the **SDP Composer** application allowing the integration of **PS\_RIP NIPSON\_HarlequinRIP8.0r0** application with Nipson PrintServer. It can be started also with the shortcut '**CompPsRip**' created on the desktop.
- **Genlin Tool** : this program should be associated with a densitometer to measure a printed target,
- **License Manager** allows to manage **Harlequin RIP** product Licenses.
- **Oem Manual** is a shortcut allowing to access directly to the file **oem\_manual.pdf**, documentation of the **Harlequin RIP**.
- **Release Notes** is a shortcut allowing to access directly to the file **rel\_notes.pdf**, documentation containing the last newness of the **RIP Harlequin HarlequinRIP8.0r0** version.
- **User Guide** is a shortcut allowing to access directly to the file **UGPS-RIP\_HarlequinRIP8.0r0.pdf**, **NIPSON** complementary documentation.

## 2.6 UNINSTALLATION

To remove the **NIPSON\_HarlequinRIP8.0r0 PS\_RIP** product, use standard tool of Windows **Add/Remove programs**. Select **CompPsRipToNpp** in the list and then click on '**Remove**' button.

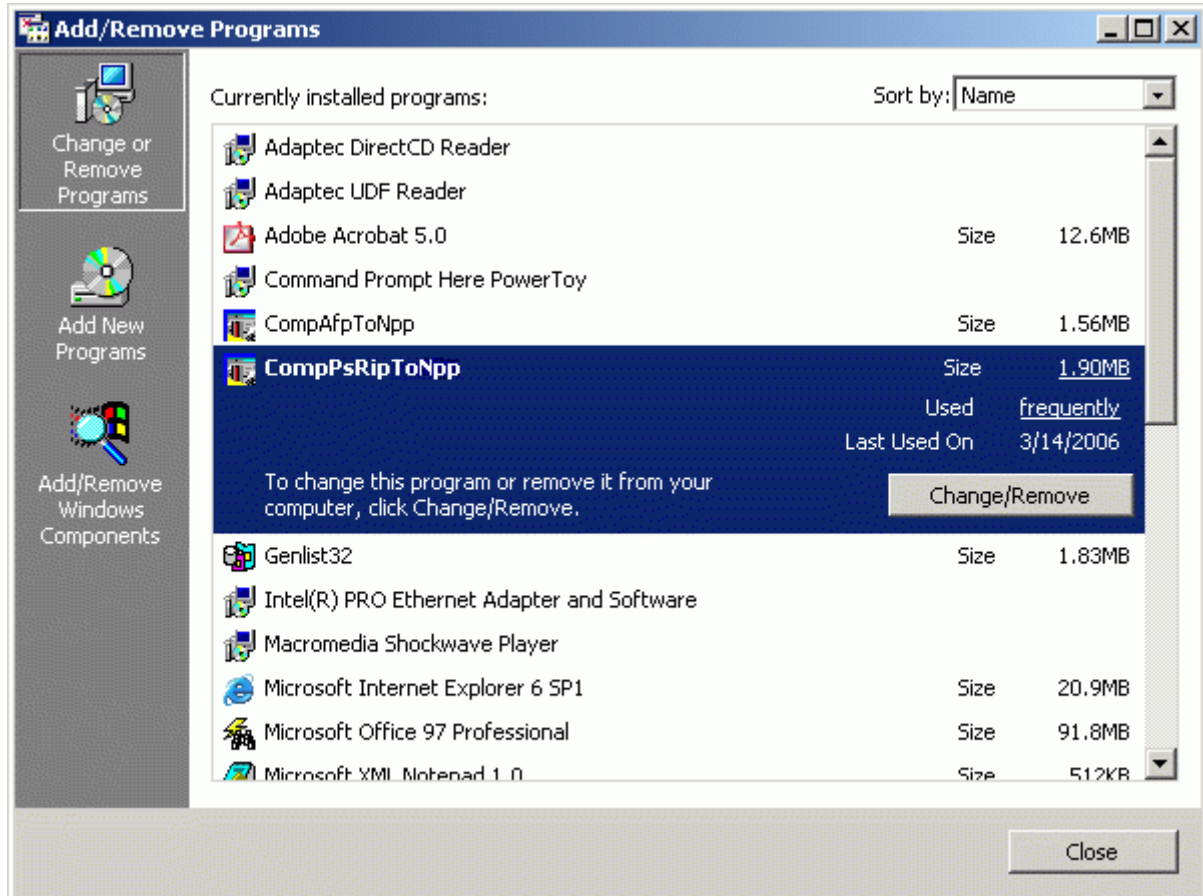


Figure 2-29 PS\_RIP uninstallation : Remove program

The following window is displayed during initialization:

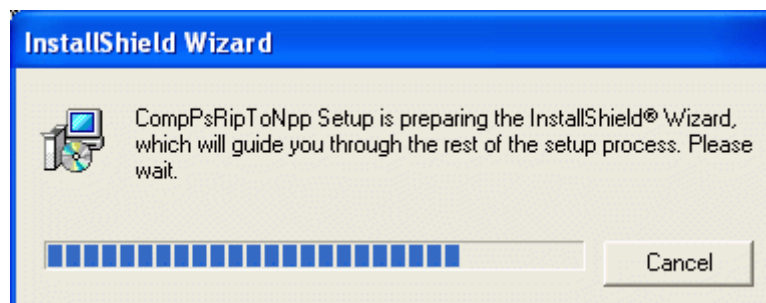
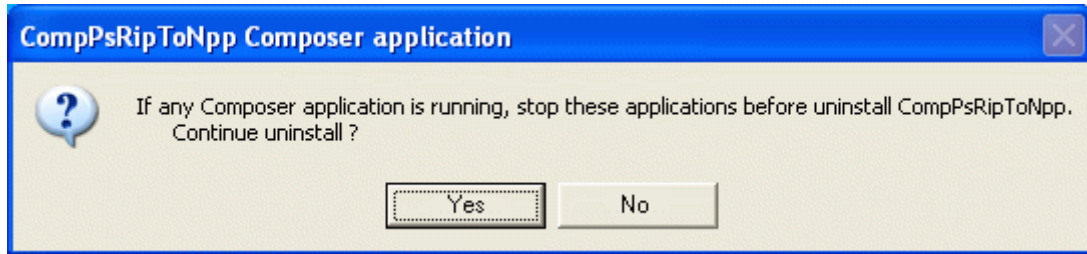


Figure 2-30 PS\_RIP uninstallation: Initialization

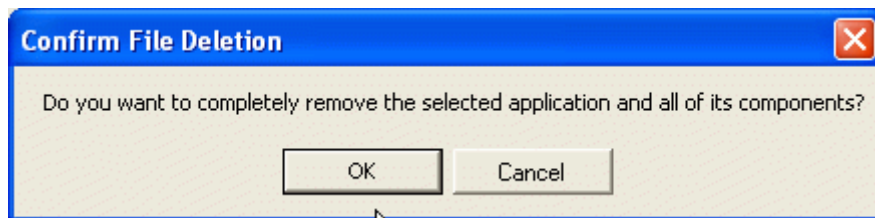
## Installation

A message is displayed then recalling that any other NIPSON composer should imperatively be stopped :



*Figure 2-31 PS\_RIP uninstallation: Stop Composers*

Then, a window of confirmation is displayed:  
press on '**OK**' to start the uninstallation.



*Figure 2-32 PS\_RIP uninstallation: Starting*

Before the uninstallation properly so called, the program stops and removes the service:

**'Harlequin License Server'**

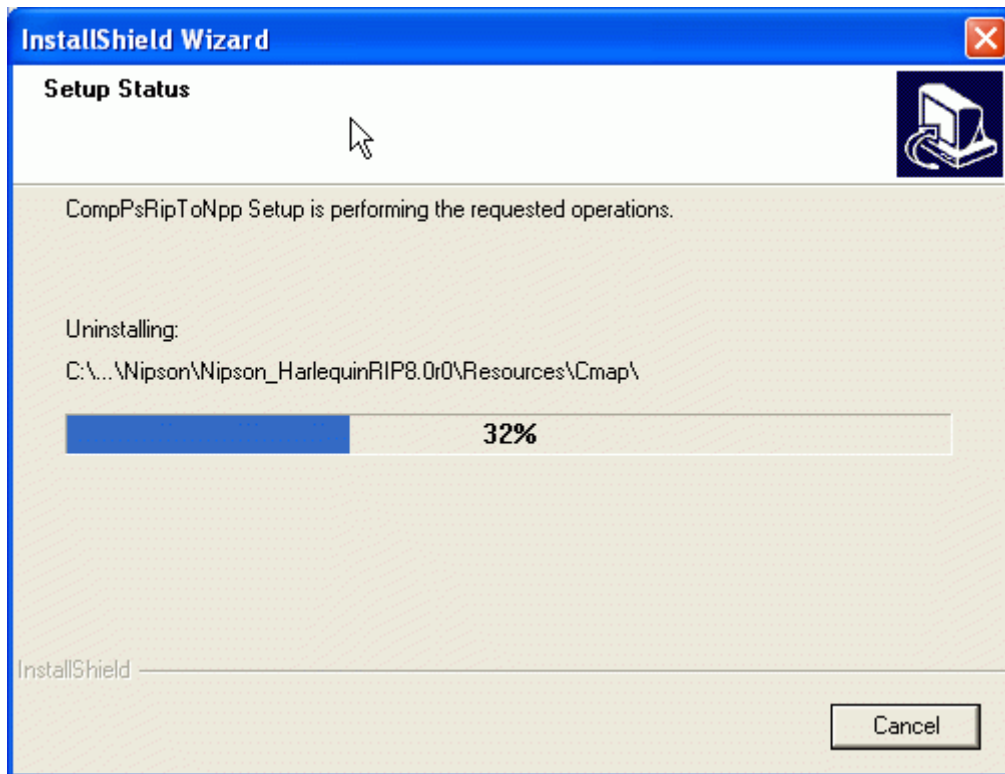
That ends with viewing the following window:



*Figure 2-33 PS\_RIP uninstallation : Harlequin License Server Stop and Remove*

Click on 'OK' button to continue uninstallation.

During uninstallation, the following window is displayed:



*Figure 2-34 PS\_RIP uninstallation: Running*

The uninstallation program then deletes automatically all that it had installed, including keys in Windows Registry, the shortcuts of the Starting menu and the Desktop.

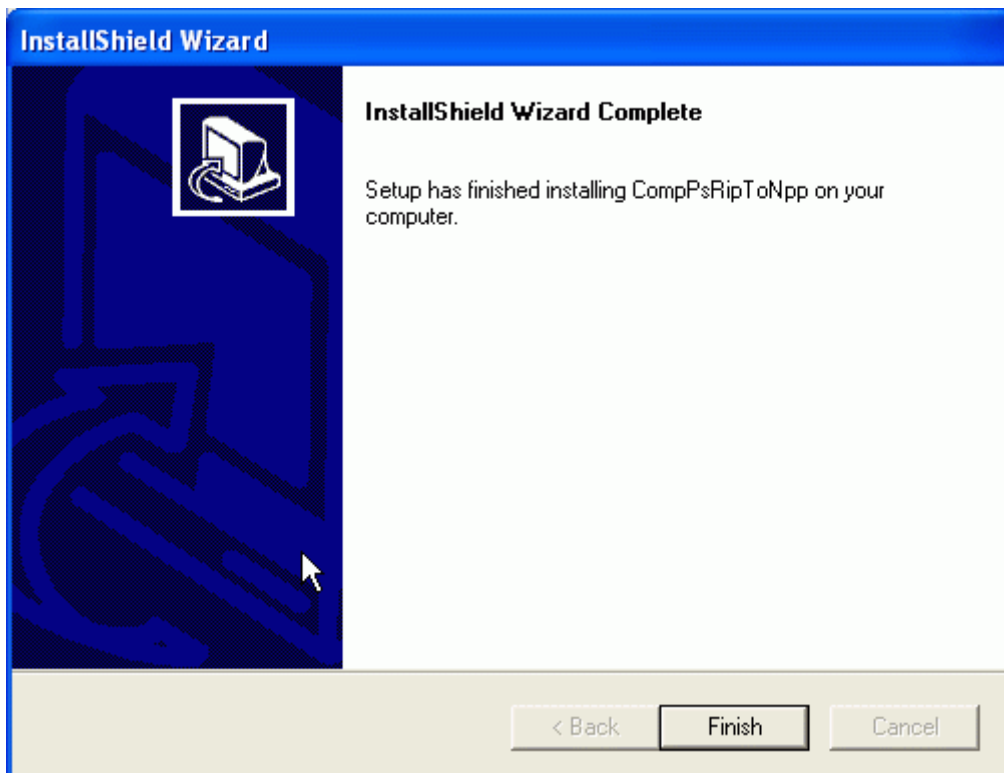
During the uninstallation, the following window can appear :



*Figure 2-35 PS\_RIP uninstallation : Shared Files*

Certain files are common to other applications (shared files); They are not deleted during uninstallation, except if it is the last application which uses them which is uninstalling. In this case, this window appears to confirm that one can remove these files. Except particular case, check the box 'Don't display this message again' and answer 'Yes' to continue the uninstallation.

When the uninstallation is finished, the following window appears:



*Figure 2-36 PS\_RIP uninstallation: Finished*

The uninstallation program does not delete the files created after installation. Thus directories containing these files remain. To delete product **PS\_RIP** completely, these directories should be deleted manually:

- The directory '**NIPSON\_HarlequinRIP8.0r0**' in '**C:\Program Files\Nipson**',
- The directory '**Global Graphics Software**' in '**C:\Program Files\Common Files**'  
(Caution: Do not remove this directory if another version of **PS\_RIP** is installed),
- The directory '**usr**'.  
(Caution: Do not remove this directory if another version of **PS\_RIP** or **SDP composer** or **PCL\_RIP** or **NIPSON OpenPage** is installed).

## 3. Configuration and Customization

### 3.1 RIP CONFIGURATION

As indicated previously, the Harlequin RIP is configured automatically at installation in order to work in an optimum way for the job processing with the NIPSON printer plugins. The user can however modify these parameters setting if that is necessary.

For that, select item '**Configure RIP**' from '**NIPSON**' menu as indicated below.

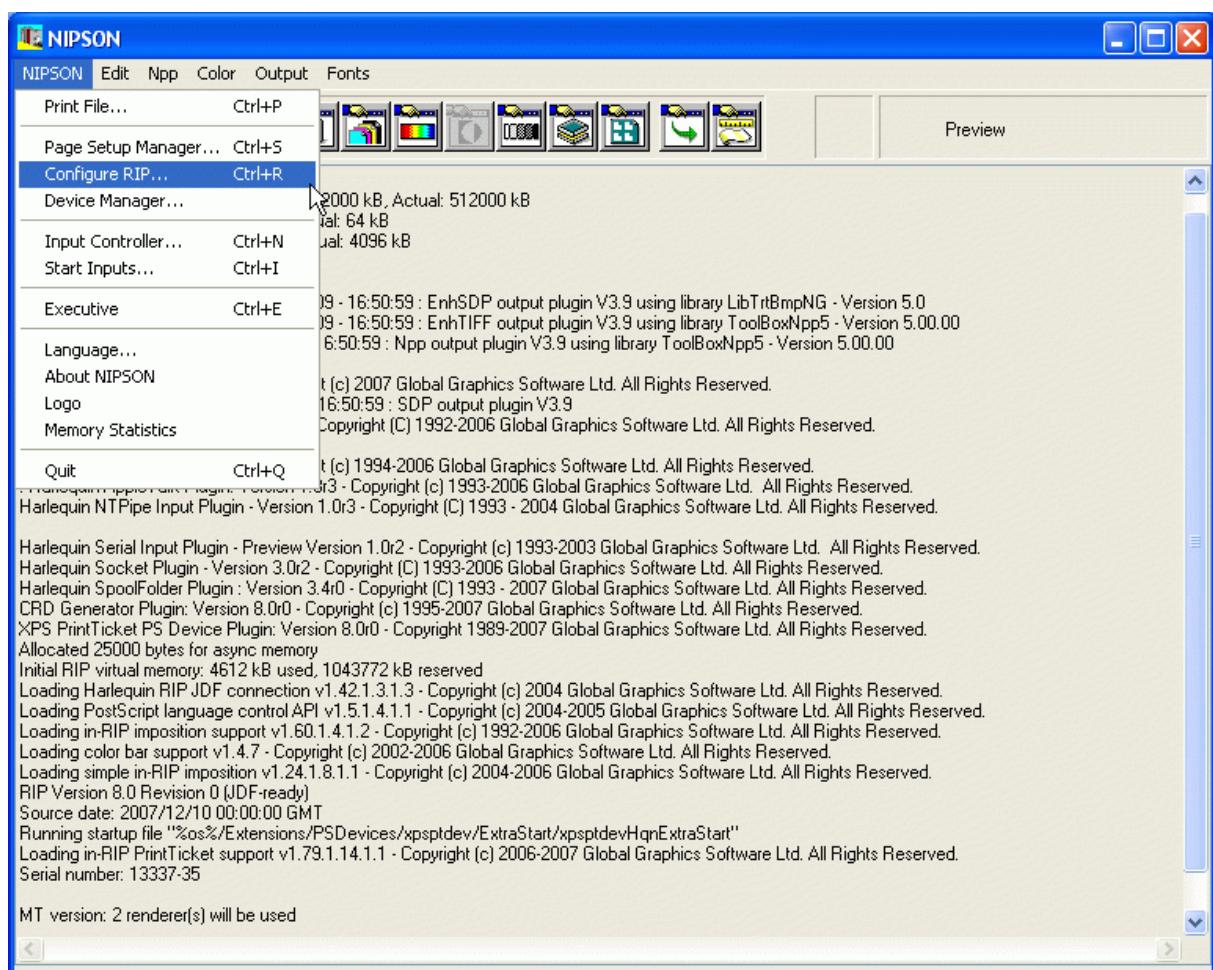


Figure 3-1 NIPSON\_HarlequinRIP8.0r0: Configure RIP

The window **Configure RIP** is as follows:

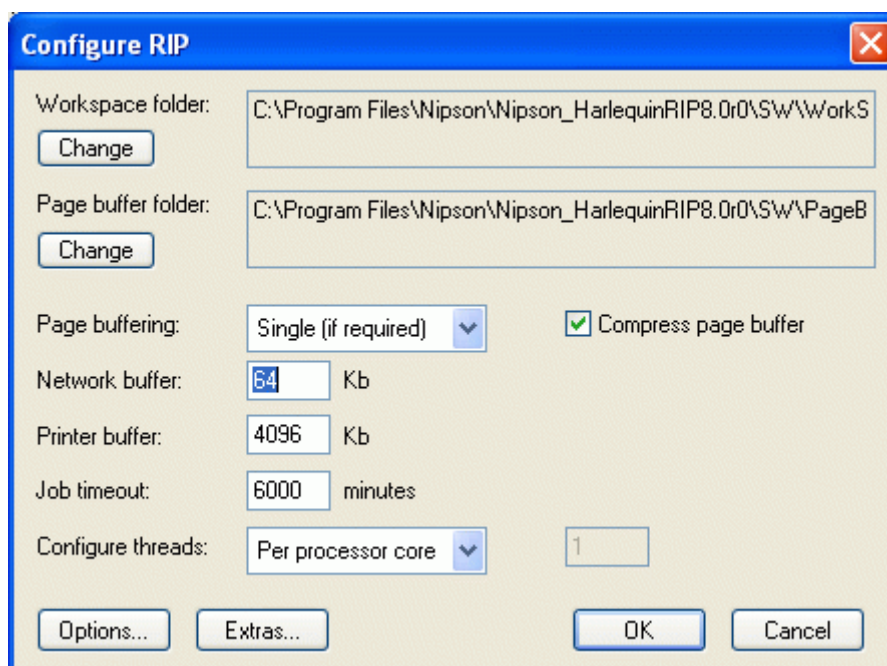


Figure 3-2 Configuration of NIPSON\_HarlequinRIP8.0r0 RIP

**Workspace folder:** This directory is used as general directory workspace, if there isn't enough RAM memory available, the RIP will create temporary files in this directory.

**Page buffer folder. :** When the RIP stores intermediate pages between itself and Output Controller to hard disk, they are placed in this directory. If the checkbox **Compress Page buffer** is checked, these pages are compressed and that generally improve the performance while saving space on the hard disk.

**Page buffering. :** Allows to choose the working mode for intermediate pages management between RIP and Output Controller (driving output Plugins). 4 modes:

- **Multiple (Parallel):** The RIP creates a queue of intermediate pages between itself and Output Controller on the disk, each process (RIP and Output Controller) running at his proper speed.
- **Multiple:** Identical to previous mode when using NIPSON Plugins.
- **Single (if required):** The RIP creates a single page in memory and send it to the Output Controller without writing it on a file on the hard disk before to process the next page. **This mode is selected at installation.**
- **Single:** The RIP creates a single page on the hard disk and waits that this page is processed by Output Controller before to process the next page.

When using RIP with NIPSON Plugin, **Single (if required)** mode is the speediest since it doesn't use intermediate files on the hard disk.

In the two cases **Single (if required)** and **Single**, **Output Controller** window isn't viewed.

**Network buffer:** This buffer lets the RIP read data from the input source before actually needing to processed it. Keep the default value.

**Printer buffer:** This value gives the size of the dialog buffer between Output Controller and the output Plugin. Keep the default value.

**Job timeout:** allows to control the processing time used by the RIP for a job (For example, if an error in PostScript file create an infinite process). Set it to minimum: 5 minutes).

**Configure threads :** Multi-threading enables the RIP to take advantage of hyperthreading and multi-core CPU architectures as well as multiple processors. Only rendering is multi-threaded: interpretation is not. For more information, refer to the user's manual '**oem\_manual.pdf**' of **Harlequin RIP** in the directory '**Documentation\User**'.

When you click on **Options...** in the window '**Configure RIP**', the following window appears:

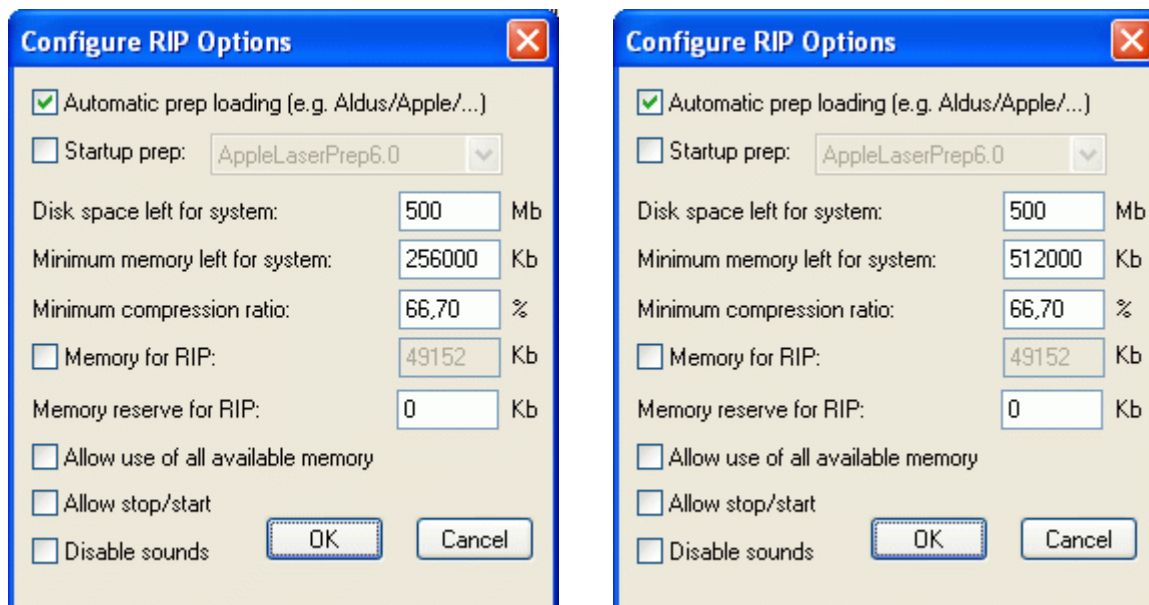


Figure 3-3 Configure NIPSON\_HarlequinRIP8.0r0 RIP Options dialog box

Keep the default values, except eventually the **Minimum left memory for system** parameter which must be adapted to the memory size of the station. Use a value equal to 1/2 or 3/4 of physical memory of the station. For example above, there is on the left the case where the station is equipped with 512 Mbytes of memory and on the right the case where the station is equipped with 1024 Mbytes of memory.

When the **Memory for RIP** option is not selected, the RIP is allocating all the available physical memory, less the amount specified in the **Minimum left memory for system** field.

The RIP configuration allows to ensure you that it leaves free a minimum amount of disk space (**Disk space left for system**).

**Minimum compression ratio:** 66.70 is a trade-off between speed of processing and compression ratio. This parameter concerns the intermediate pages stored on the hard disk. It isn't useful if the **Page buffering** mode is **Single (if required)** as recommended for NIPSON plugins.

When you click on **Extras...** button in the window '**Configure RIP**', the following window appears:

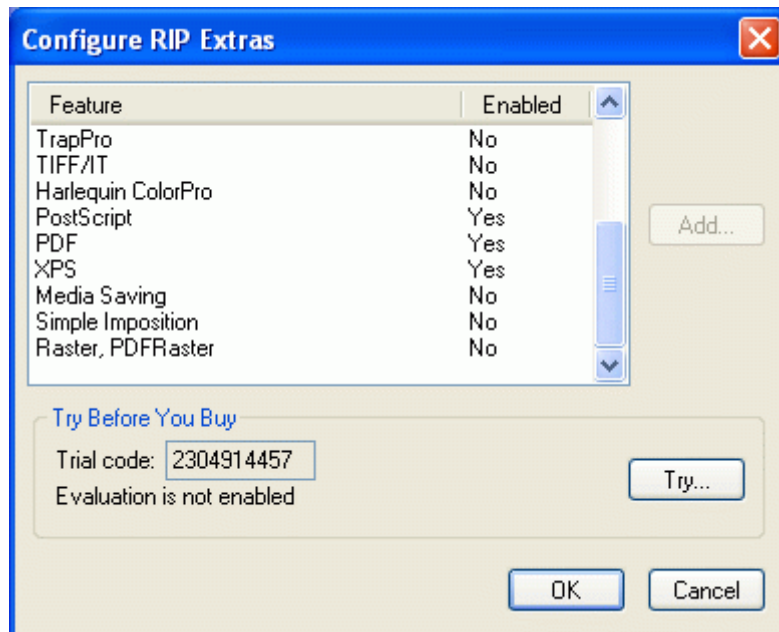


Figure 3-4 Configure NIPSON\_HarlequinRIP8.0r0 RIP Extras dialog box

This dialog box visualizes the **PS\_RIP** options and indicates if they are enabled or not. It also allows to enable new options not provided with the NIPSON product.

## 3.2 GENERAL DESCRIPTION OF OUTPUT PLUGINS

The **NIPSON\_HarlequinRIP8.0r0 PS\_RIP** product is delivered with two kinds of output Plugins.

- 3 Plugins included in **Harlequin RIP: None, Preview** and **TIFF**. These Plugins can be used for the applications development, but are not directly useful in the case of job printing with NIPSON printers. For more information about the use and the functionalities of these Plugins, refer to the user's manual '**oem\_manual.pdf**' of **Harlequin RIP** in the directory '**Documentation\User**'.
- 2 Plugins provided by **NIPSON: NPP** and **EnhTIFF**. These Plugins have been especially realized to operate with NIPSON printers 480 dpi and 600 dpi using the new **NPP protocol**. **NPP** and **EnhTIFF** Plugins are especially developed to improve the print quality on NIPSON printers 480 dpi and 600 dpi.  
If **SDP option** is installed, 2 additional **NIPSON** Plugins are provided: **SDP** and **EnhSDP**. These Plugins are provided for compatibility with NIPSON printers using the old **SDP protocol**.

### 3.2.1 None Plugin

**Plugin None** provided with the **Harlequin RIP** allows to work with the RIP without data output. It is a RIP operation 'without printing' which enables in some cases of error analysis to be released from the output Plugins problems. That allows to locate the error origin: RIP or output Plugin.

### 3.2.2 Preview Plugin

**Plugin Preview** provided with **Harlequin RIP** allows to visualize at screen the pages produced by RIP. This Plugin allows various output formats: CMYK Composite, CMYK Separations (Contone), CMYK Separations (Halftone), RGB Composite, Monochrome Contone and Monochrome Halftone.

### 3.2.3 TIFF Plugin

**TIFF Plugin** provided with **Harlequin RIP** allows to create files with TIFF format tiff for each page produced by the RIP. This Plugin allows also various output formats: CMYK Composite, CMYK Separations (Contone), CMYK Separations (Halftone), RGB Composite, Monochrome Contone and Monochrome Halftone.

To use TIFF files produced by this Plugin in an **NIPSON OpenPage** application for NIPSON printers, it is necessary to create and use a style such as **Monochrome Halftone** and to select one of the screens provided for NIPSON printers.

### 3.2.4 NPP Plugin

**NPP Plugin** is a Plugin especially developed to improve print quality on NIPSON printers 480 dpi and 600 dpi. For that, the Screening function is not made any more by the **Harlequin RIP**, but by Plugin itself. This Plugin works on the images in gray levels, which allows to have a specific data processing sequence. This Plugin generates output files in the new **NPP protocol** useful only with **Nipson PrintServer** application.

### 3.2.5 EnhTIFF Plugin

**EnhTIFF Plugin** is also a Plugin using the same data processing sequence **as NPP Plugin**. The difference is at output level: **EnhTIFF Plugin** produces files at TIFF monochrome format, these files can be used directly in others print applications with NIPSON printers (for example with **NIPSON OpenPage**).

### 3.2.6 EnhSDP Plugin

**EnhSDP Plugin** is provided with the **SDP option**. This Plugin uses the same data processing sequence **as NPP Plugin**. The difference is at output level: **EnhSDP Plugin** produces files in the old **SDP protocol**.

### 3.2.7 SDP Plugin

**SDP Plugin** is provided with the **SDP option**. This Plugin is provided for compatibility with the old versions: It uses screening integrated into the **Harlequin RIP**, but with screens provided by NIPSON, screens adapted to the technology of the print engine of NIPSON printers 480 dpi and 600 dpi. However, this plugin is compatible with old NIPSON 240 dpi printers upon condition of using only the screening integrated into the **Harlequin RIP** with the standard screens (Round, Euclidean, Elliptical, etc...) This Plugin produces files in the old **SDP protocol**.

### 3.3 CONNECTION TO NIPSON PRINTSERVER APPLICATION

As indicated in the preface, the **PS\_RIP** application can be associated with **Nipson PrintServer** in two different ways :

- Either in **external PS\_RIP** (thus manual) and in this case, the connection configuration is done in **PS\_RIP** application : See the continuation of this chapter.
- Either in **integrated PS\_RIP** (**PS\_RIP** application becomes a job composer unit controlled automatically by the composition spooler of **Nipson PrintServer**) and in this case, the connection configuration is done in **CompPsRipToNpp** application : Report to **NipsonPrintServer\_&\_PsRip\_us.pdf** documentation.

The **NPP** (and in option **EnhSDP** and **SDP**) plugins allow to establish a connection in **external PS\_RIP** configuration on the **NIPSON printing Server** application named **Nipson PrintServer**. This allows to automate the printing of **NPP** (or **SDP**) jobs composed with **PS\_RIP**. For that, when a job is composed, **PS\_RIP** can submit a printing request to the **Nipson PrintServer** application.

To establish a connection in **external PS\_RIP** configuration with **Nipson PrintServer** and use it, it's necessary:

1. To configure the connection : See Chapter 3.3.2.
2. To parameter the request submission at composition parameters level of the **NPP** (and in option **EnhSDP** and **SDP**) plugins : See Chapter 4.1.3.

Several **PS\_RIP** and **Nipson PrintServer** stations configurations can exist. Report to the **NipsonPrintServer\_&\_PsRip\_us.pdf** documentation to have a detailed presentation of these several configurations.

### 3.3.1 Plugins menu access

To configure the connection to **Nipson PrintServer**, it's necessary at first to have access at **NPP** or **EnhTIFF** (or **EnhSDP** or **SDP**) plugin specific menu. This chapter explains how using of these menus is working.

The **PS\_RIP** menu bar can appear for example as follow:

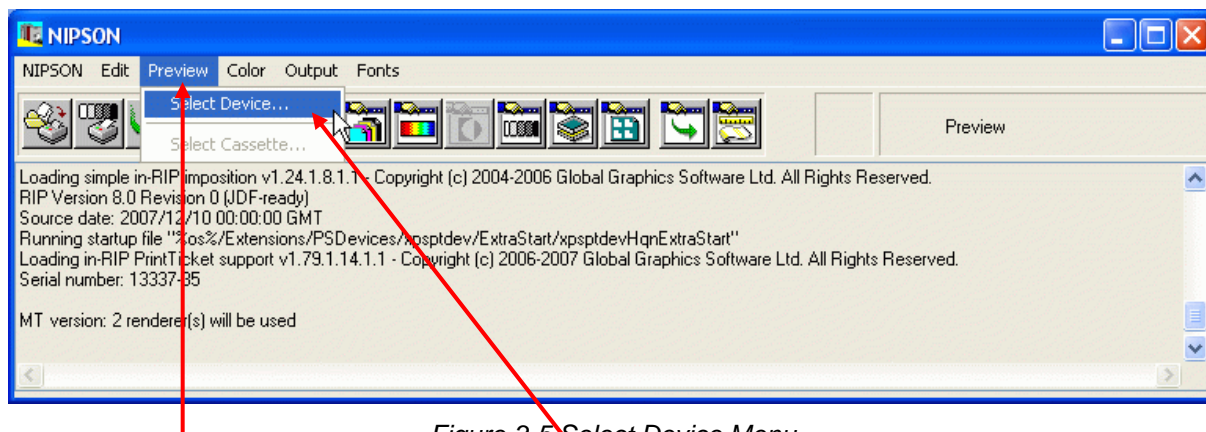
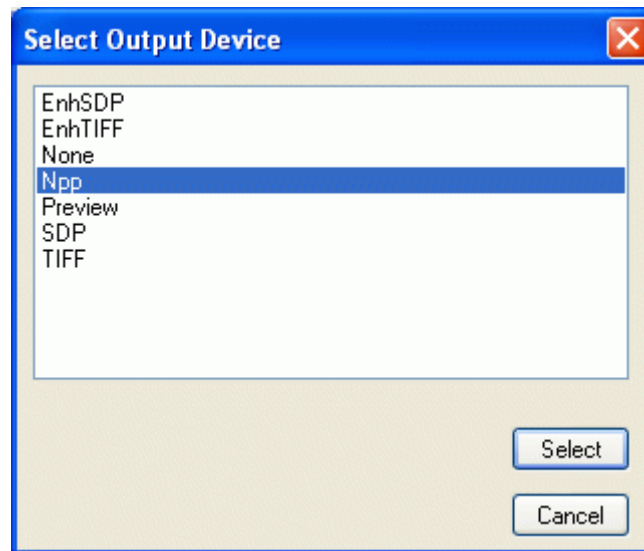


Figure 3-5 Select Device Menu

**Le third item** of the menu bar is reserved at the specific menu of each **device (or plugin)**. Note that the device that is selected at this level (preview in the case above), isn't this one is used for the job processing (For Job processing indeed, device to be used is selected in the Page Setup). This **third item** therefore allows to access at the specific menu of the selected device. In each device menu exists the **item 'Select Device...'** that allows to pass from a device (plugin) to another.

To select another **device (or plugin)**, click on the item '**Select Device ...**'.

The following devices (plugins) list appears:



*Figure 3-6 Devices or Plugins List*

Select the appropriate plugin.

Note that **EnhSDP** and **SDP** devices appear in the list only if the **SDP option** is installed.

### 3.3.1.1 NPP plugin menu

**PS\_RIP** menu bar with **EnhSDP** device (or plugin) selected appears as follow:

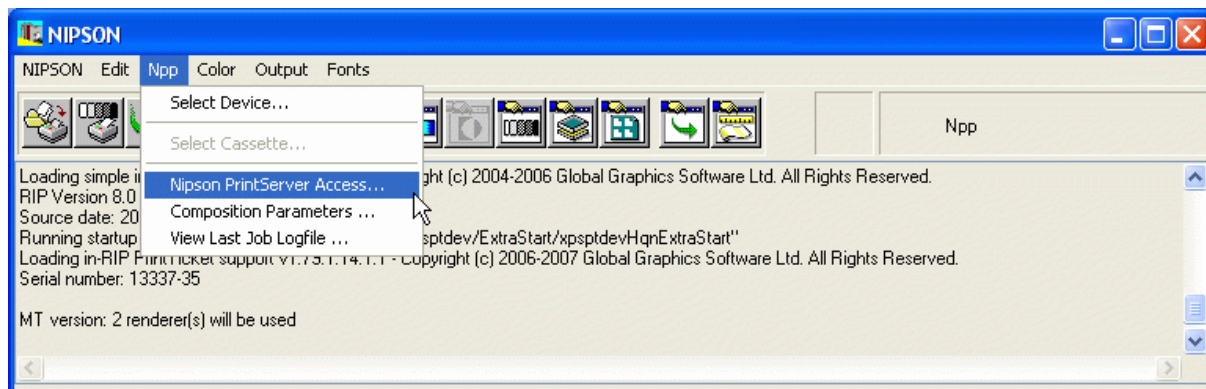
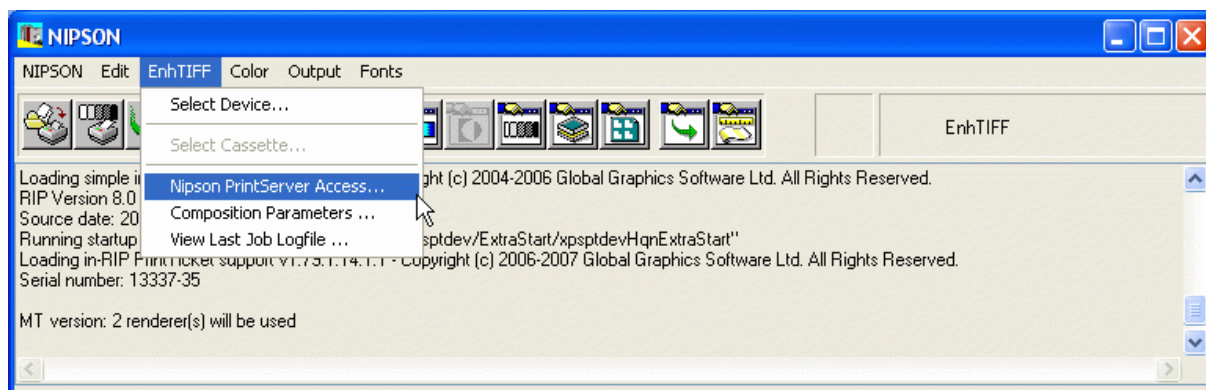


Figure 3-7 NPP plugin menu

- The '**Select Device**' item allows to change **Device** (or **Plugin**).
- The '**Nipson PrintServer Access...**' item shows a dialog box to configure the connection parameters to **Nipson PrintServer**. This same item also exists in the other **NIPSON** plugins and allows to access at the same dialog box.
- The '**Composition Parameters ...**' item allows to access at the parameters files manager for the **PSRIP\_TO\_NPP** composition. These parameters files are selected and used by the **Page Setup** using **NPP** or **EnhTIFF** plugins. This same item exists also in the **EnhTIFF** plugin and allows to access at the same manager.
- The '**View Last Job Logfile ...**' item allows to view the last processed **job 'log' file**. It is acted in fact of all the messages viewed with the screen during the job processing, oldest not being more visible with the screen. This same item exists also in the other **NIPSON** plugins.

### 3.3.1.2 EnhTIFF plugin menu

**PS\_RIP** menu bar with **EnhTIFF** device (or plugin) selected appears as follow:



*Figure 3-8 EnhTIFF plugin menu*

- The '**Select Device**' item allows to change **Device** (or **Plugin**).
- The '**Nipson PrintServer Access...**' item shows a dialog box to configure the connection parameters to **Nipson PrintServer**. This same item also exists in the other **NIPSON** plugins and allows to access at the same dialog box.
- The '**Composition Parameters ...**' item allows to access at the parameters files manager for the **PSRIP\_TO\_NPP** composition. These parameters files are selected and used by the **Page Setup** using **EnhTIFF** or **NPP** plugins. This same item exists also in the **NPP** plugin and allows to access at the same manager.
- The '**View Last Job Logfile ...**' item allows to view the last processed **job 'log' file**. It is acted in fact of all the messages viewed with the screen during the job processing, oldest not being more visible with the screen. This same item exists also in the other **NIPSON** plugins.

### 3.3.1.3 EnhSDP plugin menu

**PS\_RIP** menu bar with **EnhSDP** device (or plugin) selected appears as follow:

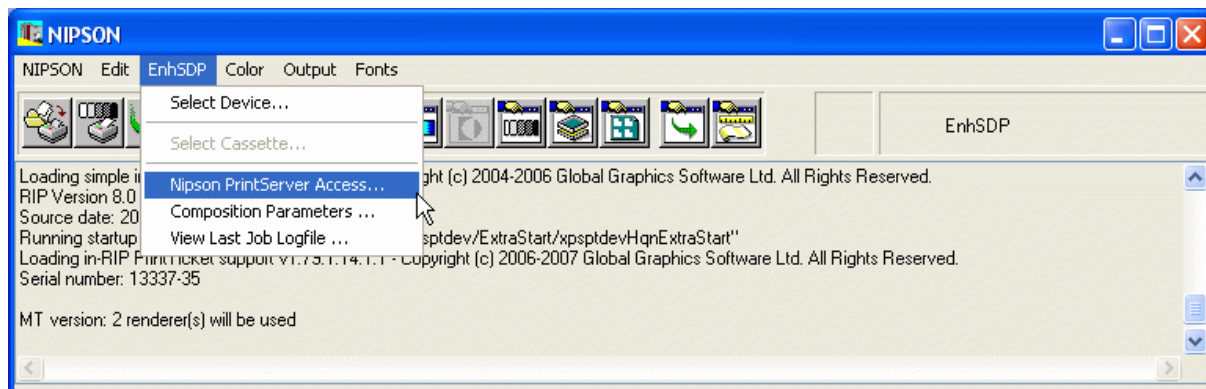
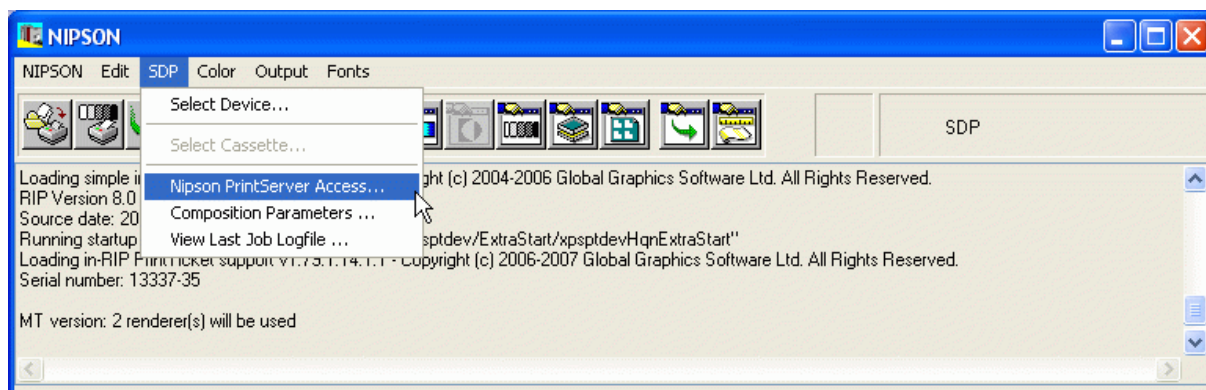


Figure 3-9 EnhSDP plugin menu

- The '**Select Device**' item allows to change **Device** (or **Plugin**).
- The '**Nipson PrintServer Access...**' item shows a dialog box to configure the connection parameters to **Nipson PrintServer**. This same item also exists in the other **NIPSON** plugins and allows to access at the same dialog box.
- The '**Composition Parameters ...**' item allows to access at the parameters files manager for the **PSRIP\_TO\_SDP** composition. These parameters files are selected and used by the **Page Setup** using **EnhSDP** or **SDP** plugins. This same item exists also in the **SDP** plugin and allows to access at the same manager.
- The '**View Last Job Logfile ...**' item allows to view the last processed **job 'log'** file. It is acted in fact of all the messages viewed with the screen during the job processing, oldest not being more visible with the screen. This same item exists also in the other **NIPSON** plugins.

### 3.3.1.4 SDP plugin menu

**PS\_RIP** menu bar with **SDP** device (or plugin) selected appears as follow:



*Figure 3-10 SDP plugin menu*

- The '**Select Device**' item allows to change **Device** (or **Plugin**).
- The '**Nipson PrintServer Access...**' item shows a dialog box to configure the connection parameters to **Nipson PrintServer**. This same item also exists in the other **NIPSON** plugins and allows to access at the same dialog box.
- The '**Composition Parameters ...**' item allows to access at the parameters files manager for the **PSRIP\_TO\_SDP** composition. These parameters files are selected and used by the **Page Setup** using **SDP** or **EnhSDP** plugins. This same item exists also in the **EnhSDP** plugin and allows to access at the same manager.
- The '**View Last Job Logfile ...**' item allows to view the last processed **job 'log' file**. It is acted in fact of all the messages viewed with the screen during the job processing, oldest not being more visible with the screen. This same item exists also in the other **NIPSON** plugins.

### 3.3.2 Nipson PrintServer connection Configuration

Use the '**Nipson PrintServer Access...**' item menu of one of the plugins as explained in the previous chapter to open the '**Nipson PrintServer Access Configuration**' dialog box:

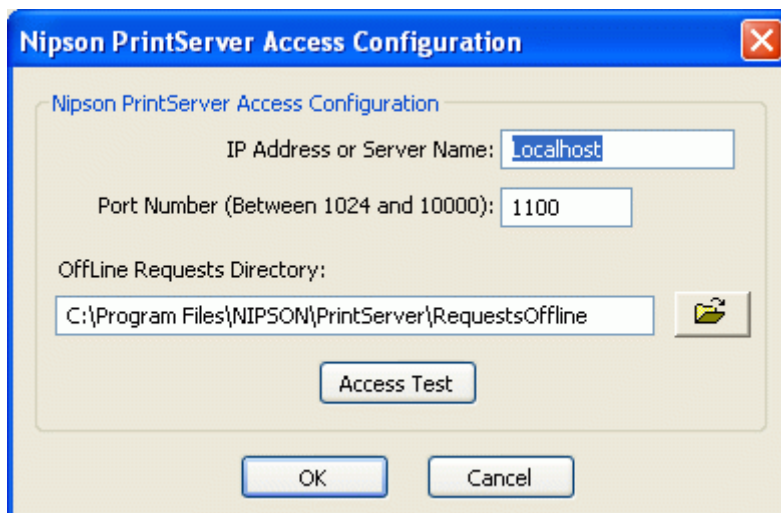


Figure 3-11 Nipson PrintServer connection Configuration

This dialog box allows to define the connection parameters to a **Nipson PrintServer** application.

To use the connection with a **Nipson PrintServer** application, it is necessary to define the following parameters:

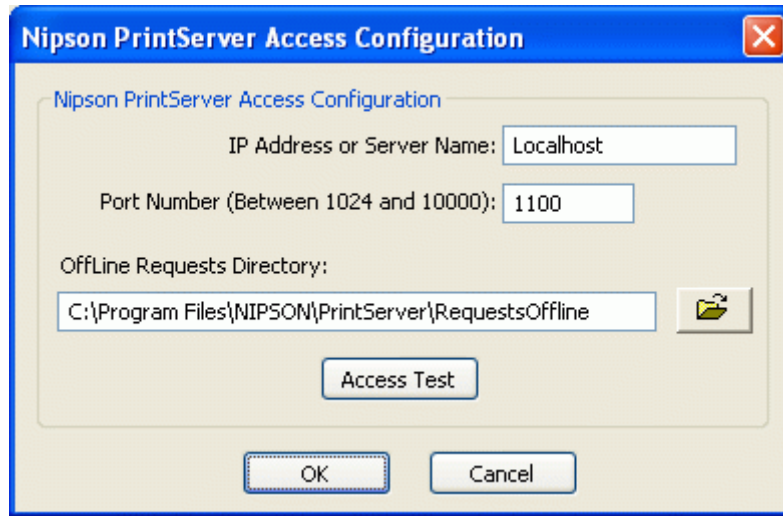
1. '**IP Address or Server Name**' : Give here the IP address or the station name on which the **Nipson PrintServer** application is installed. If this station is the same one as the **PS\_RIP** station, this parameter also should be defined.
2. '**Port Number**' : This communication port number, 1100 by default, must be the same one as the listening port number defined in the **Nipson PrintServer** application.
3. '**OffLine Requests Directory**' : This field allows to define the **OffLine Requests directory**: This directory is **Nipson PrintServer** application directory in which **PS\_RIP** writes the requests being submitted in files (.rol extension) when it could not be connected to the **Nipson PrintServer** application (for example, if this one is stopped). This makes it possible not to lose the requests, this one being automatically taken into account by the **Nipson PrintServer** application when it starts. This directory has as a name **RequestsOffLine** and is in the case of a standard installation of the **Nipson PrintServer** product in the directory:

**C:\Program Files\Nipson\PrintServer\**



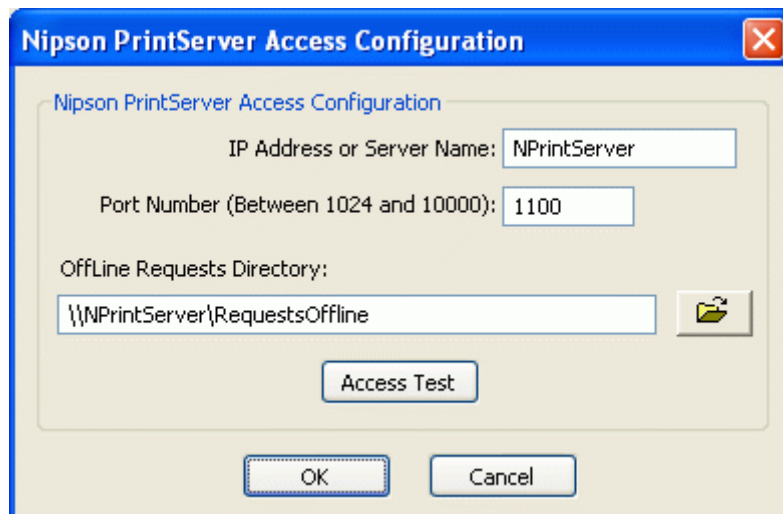
Use the button to search this directory directly. If the **Nipson PrintServer** application and the **PS\_RIP** application aren't on the same station, this directory must be shared on the network. Select it by using navigation on the network.

The following figures show two cases of **Nipson PrintServer** connection parameters:



*Figure 3-12 PS\_RIP local Configuration*

In this first example, it acts of a configuration where **PS\_RIP** and **Nipson PrintServer** are on the same station.



*Figure 3-13 PS\_RIP network Configuration*

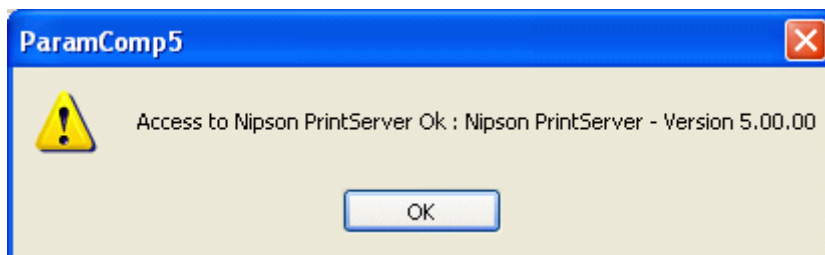
In this second example, it acts of a configuration where **PS\_RIP** and **Nipson PrintServer** are on different stations.

Report to the **NipsonPrintServer\_ & PsRip.pdf** document of the **Nipson PrintServer** product for other details on the various configurations of connection.

When these parameters are defined, the '**Access Test**' button makes it possible to check that connection with the **Nipson PrintServer** application is Ok. For that, the **Nipson PrintServer** application must be running.

The test proceeds in 3 phases with showing a message for each one of it:

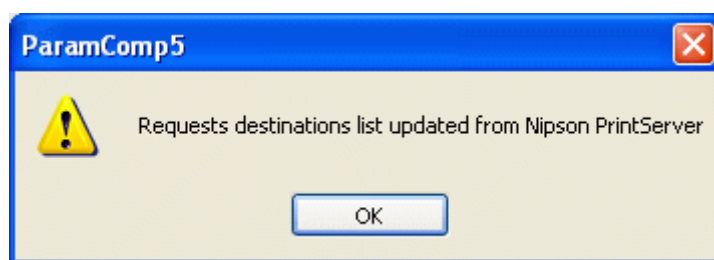
**Step 1 :**



*Figure 3-14 PS\_RIP Configuration : Step 1 Access Test*

In the first phase, **PS\_RIP** establishes a connection with **Nipson PrintServer** and request the version number of the application.

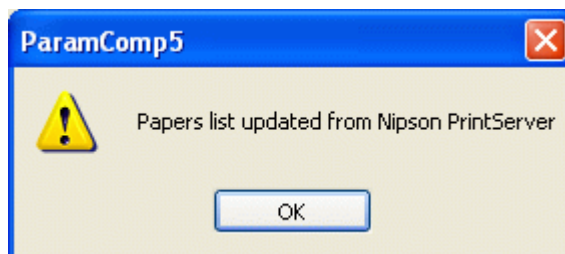
**Step 2 :**



*Figure 3-15 PS\_RIP Configuration : Step 2 Access Test*

In the second phase, **PS\_RIP** requires of **Nipson PrintServer** the defined destinations list (Groups or printing Queues) and memorizes them locally to use them in the requests parameters dialog box. (See chapter 4.1.2.2).

**Step 3 :**



*Figure 3-16 PS\_RIP Configuration : Step 3 Access Test*

In the third phase, **PS\_RIP** requires of **Nipson PrintServer** the defined papers list and memorizes them locally to use them in the requests parameters dialog box. (See chapter 4.1.2.2).




## 4. Using NIPSON Plugins

### 4.1 USING NPP PLUGIN

The **Device** concept used in the windows and dialog boxes of the **Harlequin RIP** is equivalent to Plugin concept concerning NIPSON Plugins.

To use NIPSON Plugins, it is necessary to create Page Setup which uses them.

'**Page Setup manager...**' item in '**NIPSON**' menu, or button  in the tool bar allows to reach the management window of Page Setup.

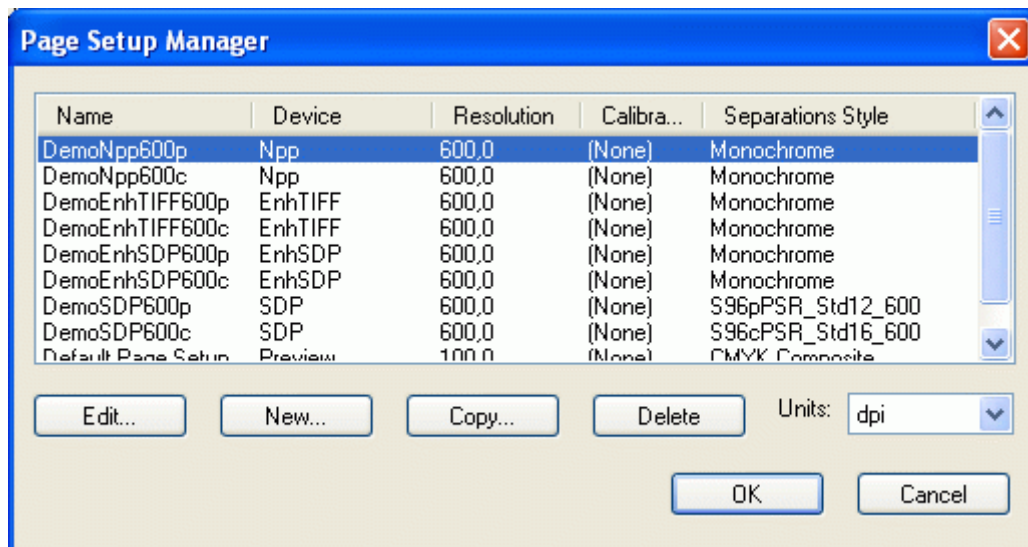


Figure 4-1 List of Page Setup

This window displays the list of **Page Setup** existing with their main characteristics. It allows to create, delete and edit the **Page Setup**.

#### 4.1.1 Creation of a new NPP Page Setup

To create a new **Page Setup**, click on the 'New...' button, the '**New Page Setup**' window appears:

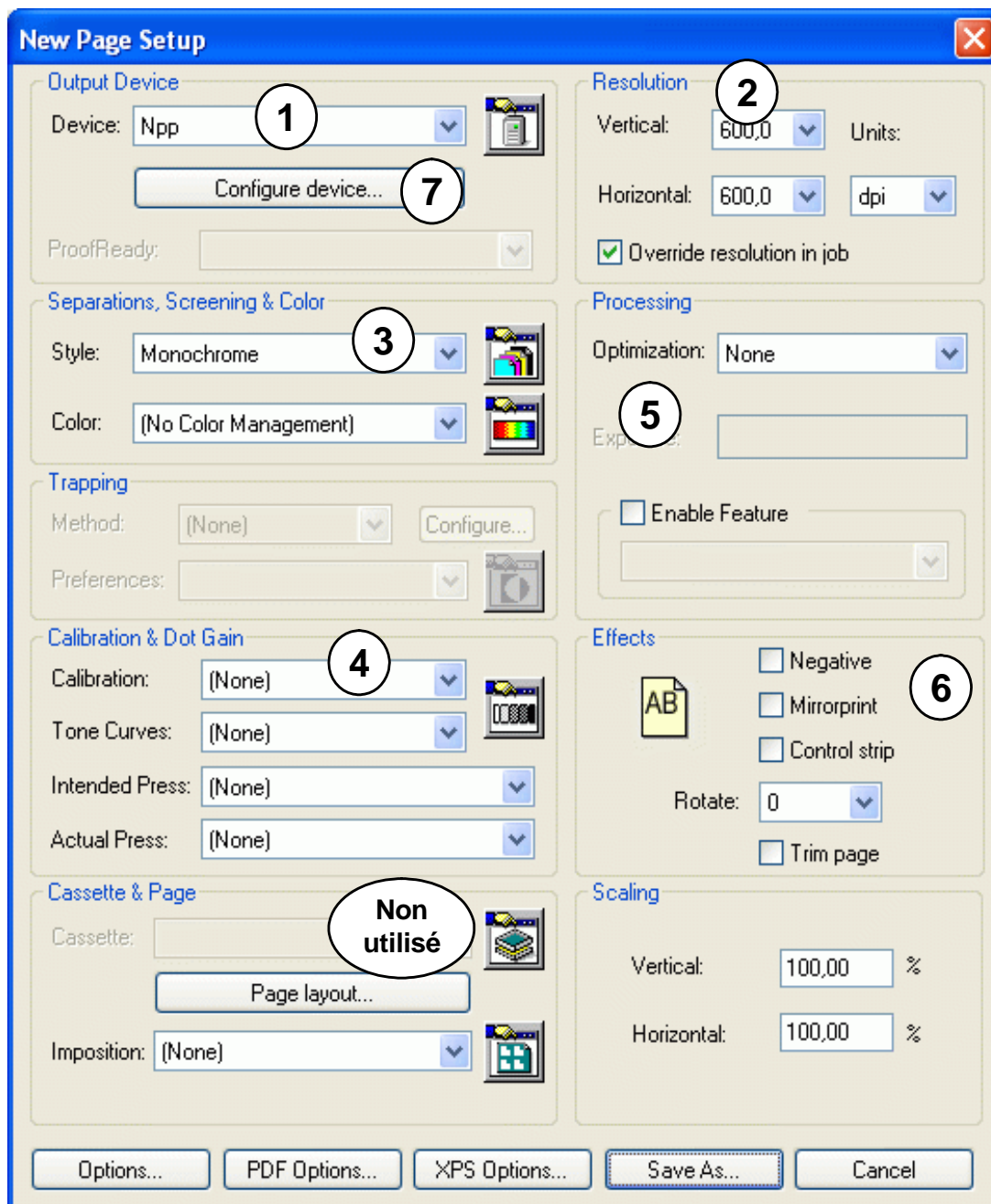


Figure 4-2 New Page Setup

(1): Select the **NPP** device in the list of **devices (or Plugins)**.

(2): Select the resolution corresponding to the target printer. Four resolutions are available : 240 dpi, 300 dpi, 480 dpi and 600 dpi. The checkbox '**Override resolution in job**' must be enabled.

**(3):** For the **NPP** device, select in the **Style** list-box the **Monochrome** style. This style exists by default.

In the case of **NPP** device, the device itself realizes the dithering function. Thus there is no need to create and use other style than the one proposed by default.

In the **Color** list-box, select **(No Color Management)** since the printer is operating in monochrome.

**(4):** In **Calibration** area, select **(None)**. The calibration curves have not to be used with Plugins NIPSON, because the used screens (see Style) integrate already a calibration curve adapted to the print engine of NIPSON machines.

**(5):** The **Processing** part is normally not useful to print jobs with NIPSON Plugins.

**(6):** The **Effects** and **Scaling** parts can be used if necessary.

**(7):** Click on **Configures device** button to reach the dialog box of **NPP** Plugin parameters. See paragraph 4.1.3.

When it is finished, **Save As...** button allows to enter a name to the new Page Setup. This one appears in the list. To finish, close the Page Setup list with **OK** button.

#### 4.1.2 NPP composition Parameters for NPP (or EnhTIFF) Plugin

The control of the jobs composition in the **NPP** protocol, integrated in the **NPP** and **EnhTIFF** Plugins, is made from composition parameters collected in files which will be associated to the job processing at Page Setup level.

A same parameters file can be used in several Page Setup.

The **NPP** and **EnhTIFF** Plugins use the same files.

The parameter files are text files without extension.

This paragraph describes how to create and manage these parameters files.

##### 4.1.2.1 Access to Composition parameters file Manager

To reach the management tool of the parameters files called '**Composition parameters file Manager**', use the item in specific menu at each Plugin (or Device), this one is the third menu starting from the left in the menu bar. If the actual device is not **NPP** (or **EnhTIFF**) it is necessary to first select **NPP** (or **EnhTIFF**) Plugin by using the '**Select Device...**' item in this menu (See chapter 3.4.1). When **NPP** (or **EnhTIFF**) Plugin (or Device) is selected, the '**Composition Parameters ...**' item can then be reached as indicated in figure below :

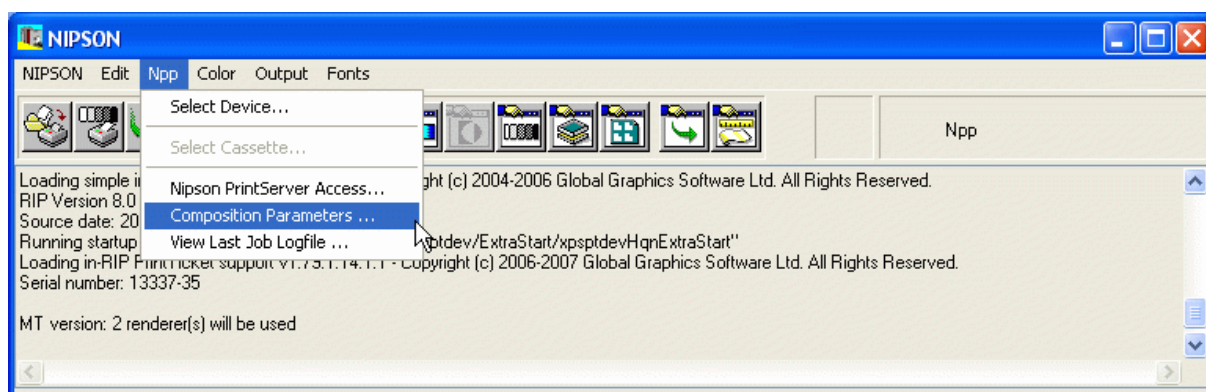


Figure 4-3 Access to Composition parameters file Manager

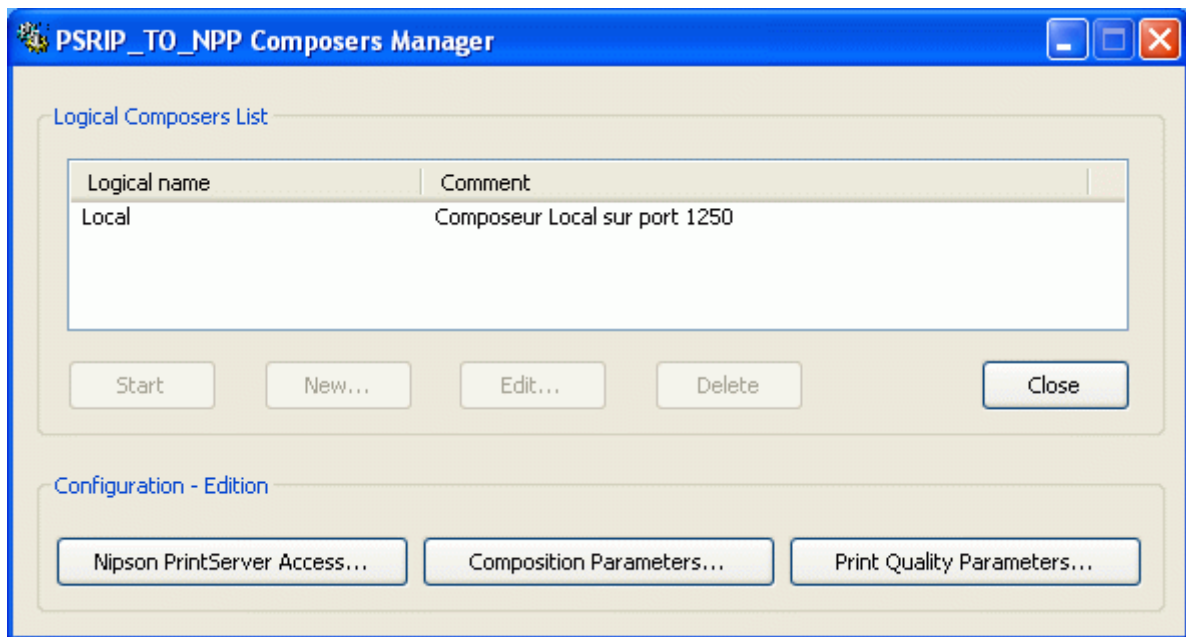
It is also possible to access to composition parameters in NPP from the module **CompPsRipToNpp** in '**PSRIP\_TO\_NPP Composers Manager**' mode.

To start the **CompPsRipToNpp** composer in '**PSRIP\_TO\_NPP Composers Manager**' mode use the menu :

**Start->Programs->NIPSON Tools->CompPsRipToNpp->CompPsRipToNpp**

One can also use the shortcut '**CompPsRipToNpp**' created on the desktop at the time of installation. These two shortcuts start the application **CompPsRipToNpp** without parameter.

They have the following window then :



*Figure 4-4 CompPsRipToNpp in Composers Manager mode*

The '**Composition Parameters...**' button allows to access to '**Composition parameters file Manager for PSRIP\_TO\_NPP**' dialog box.

This command opens the '**Composition parameters file Manager for PSRIP\_TO\_NPP**' dialog box :

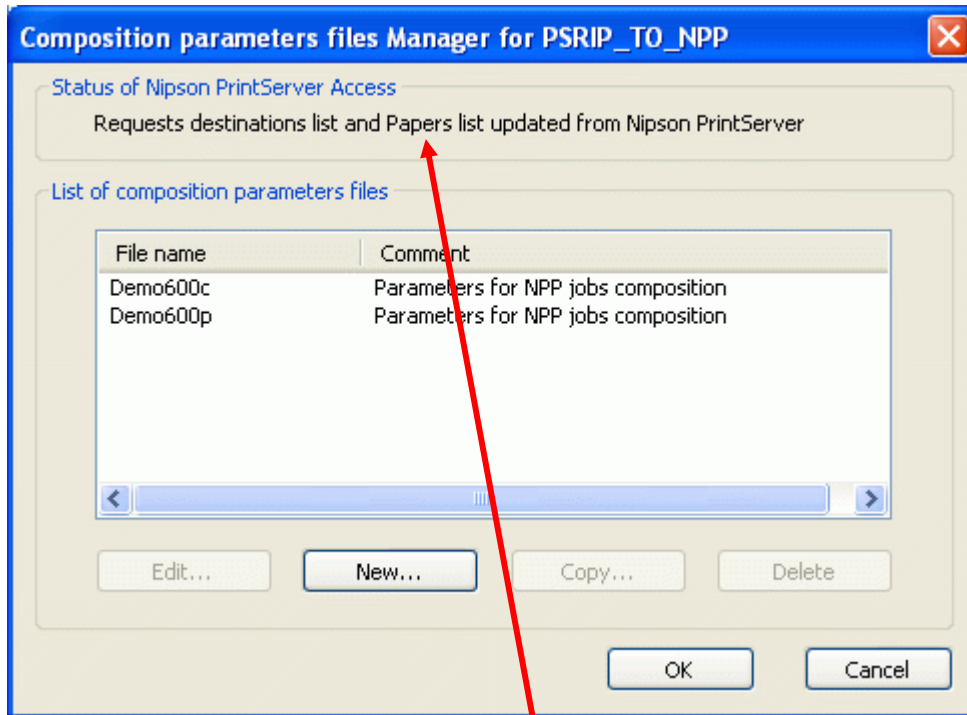


Figure 4-5 NPP composition parameters files list

At the time of the opening of dialog box, if a connection with a **Nipson PrintServer** application is defined (case of an **external PS\_RIP**), the plugin tries to connect itself to this application to obtain and update the printing request destinations list and the papers list. If the connection is possible and is successful, the message above is viewed when opening of the dialog box.

If the connection with **Nipson PrintServer** isn't possible (**Nipson PrintServer** stopped) or not defined, the message below is viewed when opening of the dialog box.

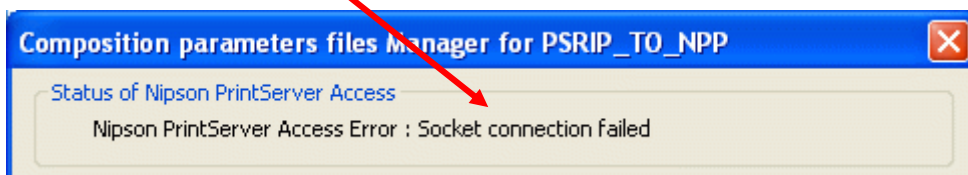
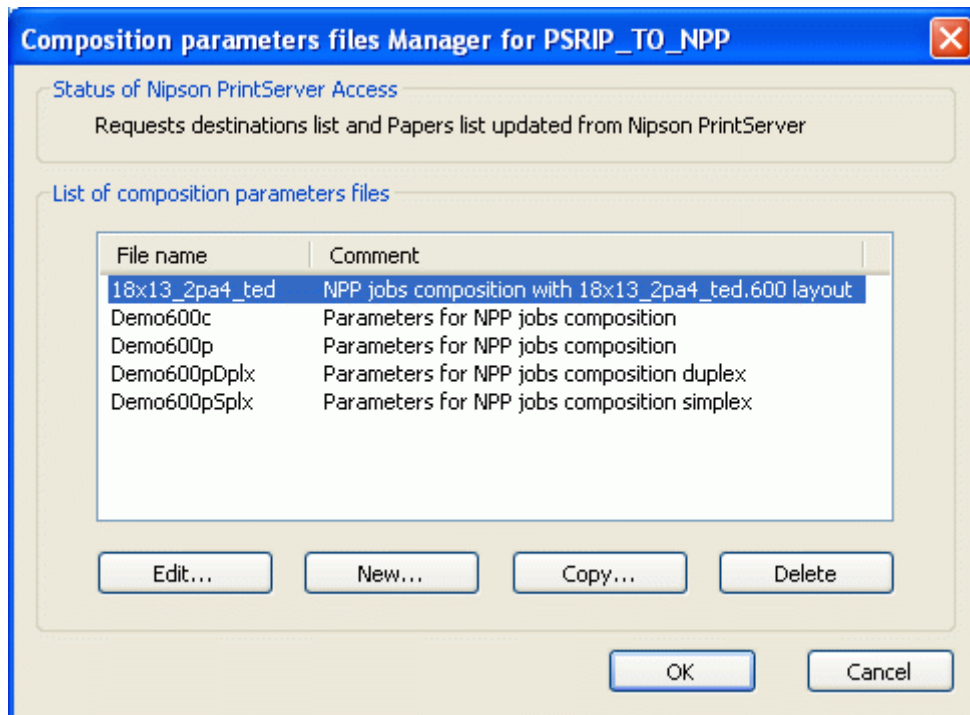


Figure 4-6 NPP composition parameters files list



*Figure 4-7 NPP composition parameters files list*

This window displays the list of composition parameters files which exist with an associated comment. It allows to create, delete and edit the parameters files. We can find the same buttons, '**Edit...**', '**New...**', '**Copy...**', and '**Delete**' than in the **Page Setup Manager** dialog box. Its operation is identical.

To create a new parameters file, use the '**New...**' button. In this case, a default parameter setting is used to initialize the parameters for a new file.

To create a new parameters file, it is also possible to select an existing file and to create a copy of these parameters using the '**Copy...**' button.

The '**Edit...**' button allows to modify the selected file.

The '**Delete**' button allows to delete the selected file.

#### 4.1.2.2 NPP composition Parameters

The parameters dialog box appears as indicated in the figure hereafter. The parameters are gathered in four tabs : the main composition parameters, the imposition specific parameters, the parameters for personalization and finally, the parameters for the printing request generation to be submitted to a **Nipson PrintServer** application.

The first tab '**Main Parameters**' :

The screenshot shows a Windows-style dialog box titled "Composition parameters file 18x13\_2pa4\_ted". It has four tabs: "Main Parameters" (selected), "Imposition Parameters", "Personalization", and "Request Parameters".

**Main Parameters tab:**

- Comment:** A text box containing "NPP jobs composition with 18x13\_2pa4\_ted.600 layout".
- Output file path and name:**
  - A text box containing "D:\Jobs\JobNpp" with a folder icon to its right.
  - A checked checkbox labeled "Use input job name as output".
  - A text box labeled "File Name (without extension) :" which is currently empty.
- Job segmentation in volumes (Index for Nipson PrintServer):**
  - "Maximum Size of the Volumes (10 to 500 Mb) :" with a text box containing "200" and "Mbytes" to its right.
  - "Maximum Number of Pages in Volumes (50 to 10000) - (0 = Disable the parameter) :" with a text box containing "0" and "page(s)" to its right.
- Composition module trace:**
  - "Trace Level : Error Traces" with a slider control set to the right position.
  - "Trace Level 1 (Plugin) : Error Traces" with a slider control set to the right position.
  - "Trace Level 2 : No Trace" with a slider control set to the left position.
  - "Maximum size for trace files : 4 Mb" with a slider control ranging from "1 Mb" to "10 Mb", currently set to "4 Mb".

At the bottom right, there are two buttons: "Save" and "Cancel".

Figure 4-8 Parameters file : 'Main Parameters' tab

Note that the '**Save**' button in this dialog box is replaced by a '**Save As...**' button when it is a new parameters file (Access by '**New...**' or '**Copy...**').

The first tab '**Main Parameters**' allows to define the following parameters:

- **Comment** : It allows to associate a comment to the parameters file. This comment appears in the parameters files list of the dialog box '**Composition parameters file Manager for PSRIP\_TO\_NPP**' and it makes the identification of the parameters file better.  
The maximum length of this comment is 255 characters.
- **Output file path and name** allows to select the output directory for **NPP** files generated by the composition module. It is possible to indicate:
  - a directory on a local disk (for example : d:\Jobs\JobNpp) if **Nipson PrintServer** is installed on the same station
  - a directory identified with its network name (for example : \\NPrintServer\Job\JobNpp) if **Nipson PrintServer** is installed on an another station that the composer.

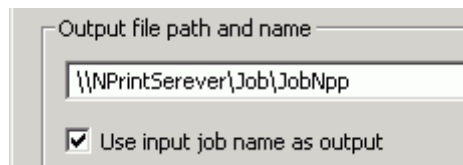


Figure 4-9 Parameters file : Network path

Add then manually the name of the output file in **File name** or check **Use input job name as output** (recommended option) ; The output file has then the same name as input file with **.npp** extension.

**Caution:** If **Use job name as output** option is checked, the output file name depends in fact on the /Title variable of .ps or .pdf document. If this variable is indicated, the content of this variable is used as file name. If not, the name of the input file is used. Moreover, if the name of the input file or the contents of the /Title variable contains a name with space characters or some special characters, those are automatically replaced by the character '\_' or 'x' so that the name of the output file is compatible with its use in the printer or other NIPSON software. In particular, the **NPP** file names should not contain 'space' characters.

- **Volumes segmentation :**  
The two parameters '**Maximum Size (in MBytes) of Job Volumes**' and '**Maximum Number of Pages in Job Volumes**' make it possible to define the maximum size of **volumes (files) NPP** according to two criteria: either a size of file, or a number of pages. At the composition time, as soon as the current volume size or number of pages of current volume reaches the maximum value indicated, volume is closed and another is created. For the volume size, use values going from 10 to 500 Mbytes. 200 Mbytes size is a good value.  
For the number of pages of a volume, use values going from 50 to 10000. 250 pages is a good value. One can also specify a zero value to disable this parameter (In this case, only the size is used for segmentation).

- **Composition module traces :**

While NPP composition, a traces file can be asked. 4 levels of traces can be selected :

- No Trace.
- Error Traces.
- Normal Traces.
- All Traces.

The traces are placed in a file named '**PsRipNpp.txt**' in the directory :

**C:\Program Files\Nipson\NIPSON\_HarlequinRIP8.0r0\CompPsRipToNpp\Traces**

The maximum size of this file can be defined between 1 and 10 Mbytes. When the maximum size is reached, the file of traces is renamed in '**PsRipNpp.old**' and a new file '**PsRipNpp.txt**' is created.

**Caution :** Concerning the **NPP** file names, at the composition time of a new job, if the required **NPP** file name already exists, this one isn't overwritten, but a new file is created while adding to the required name an automatic indexing '**\_n**' where n is an automatically incremented number.

The second tab '**Imposition Parameters**' :

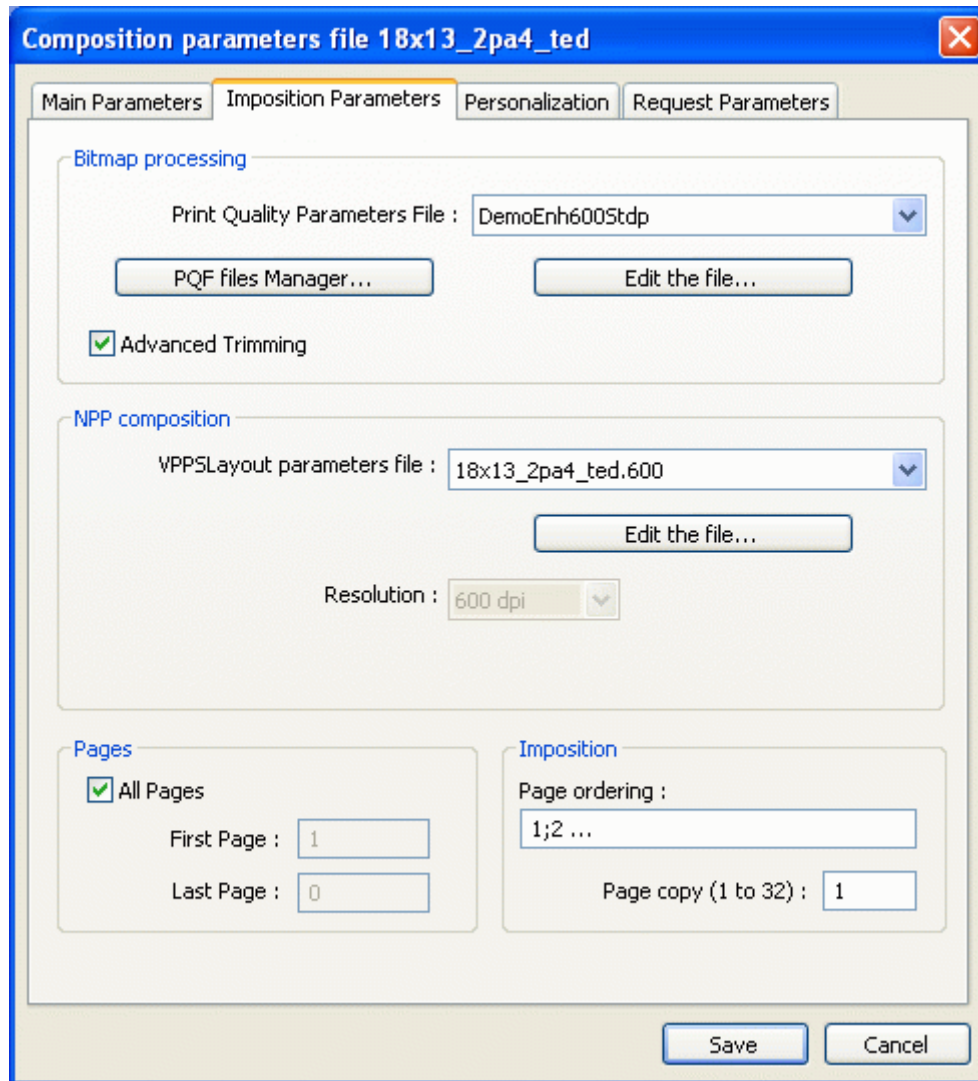


Figure 4-10 Parameters file : 'Imposition Parameters' tab

The second tab '**Imposition Parameters**' allows to define the following parameters:

- **Bitmap processing :**
  - . **Advanced trimming** : This function allows to optimize the coding of the **NPP** bitmaps so as to improve the performances of the machine during printing.
  - . **Print Quality Parameters File** : allows to select the **.pqf** file to use for the processing of images coded in colors or in grey levels. The combo box gives the list of all the **.pqf** files created with the button '**Print Quality Files...**' of the composer in Composers Manager mode.  
The button '**PQF Files Manager...**' allows to access directly to the Print Quality parameters Manager.  
The button '**Edit the file...**' allows to access directly to the edition of **.pqf** file selected in the combo box.

The NIPSON image processing sequence starts from a **bitmap in gray levels** (256 gray levels) corresponding to the page in progress provided by the **Harlequin RIP**.

The process consists to transform this bitmap into a **black and white bitmap** by applying various processes. These main processes are:

- the histograms correction of the images contained in a page,
- the images dithering according to specific modes adapted to the print engine of NIPSON printers.

(See the document **UG\_PQF\_FilesManager.pdf** for more information on PQF files).

- **VPPSLayout Parameters File** : This mandatory parameter allows to choose a parameters file representing the imposition of logical pages made up of .ps or .pdf job pages. The combo box contains an imposition parameters files list created by the **NIPSON VPPSLayout** application. These imposition files represent the sheet size used, the position of the logical pages in the sheet, the printing mode (**Simplex** or **Duplex**), the staple mode, the overlays associated with sheets and logical pages. See the documentation **UGVPPSLayout.pdf** for a detailed description of this application. The extension of the **VPPSLayout** parameters file indicates the resolution (density) in which the layout has been defined. In the case of PS\_RIP, the resolution of the job to be composed is defined at the Page Setup parameters level. Therefore, choose a layout preferably having the same resolution as that of Page Setup. Note that in this case, the combo box '**Resolution**' is disabled.

When a file of the list is selected, the '**Edit the file...**' button allows to start automatically the **VPPSLayout** application to see or edit the contents of the corresponding parameters file.

The combo box contains two particular names : **#DuplexAuto** and **#SimplexAuto** (figure below) which do not correspond to parameters files created by **VPPSLayout**. These two items are in fact commands of automatic imposition to be used in cases where the imposition is already made at the .ps or .pdf files level by the application which generated them. In these two cases, the sheet size is equal to that of the logical page contained in the .ps or .pdf file. They use **#DuplexAuto** if they want a Duplex job or **#SimplexAuto** if they want a Simplex job.

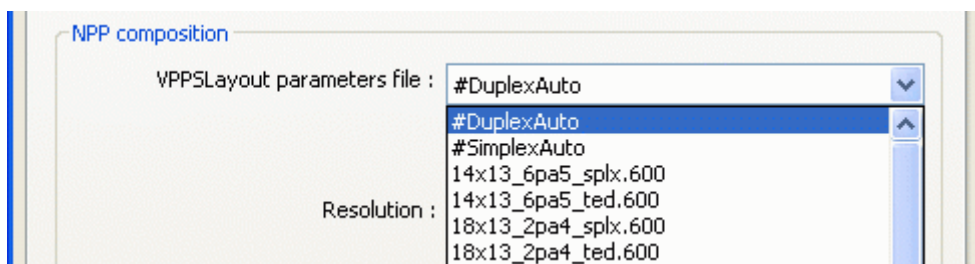


Figure 4-11 Automatic VPPSLayout parameters file

In these two cases, the combo box '**Resolution**' is also disabled, this one being defined at Page Setup level. Note also that in this case, the '**Edit the file...**' button is disabled.

**Caution:** Choose a parameter list corresponding to the target printer. In particular, use a list having the resolution according to the printer's one.

- **Page ordering** : This parameter is a complement of the VPPSLayout parameters file. It allows to define the order in which the logical pages provided by .ps or .pdf files must be imposed. Attention, this one must be coherent with the VPPSLayout parameters file.

Examples :

3;2;1	with imposition of 3 logical pages per sheet side and Simplex mode
3;2;1;6;5;4	with imposition of 3 logical pages per sheet side and Duplex mode
2 1 4 3 6 5 8 7	with imposition of 4 logical pages per sheet side and Duplex mode

To separate the page numbers, one can use character ';' or space character.

They can have a page ordering table longer than the number of logical pages described in the VPPSLayout parameters file, but in that case, the number of logical pages in the ordering table must be a multiple of the logical pages number per sheet side.

Example :

9;7;5;3;1;2;4;6;8	with imposition of 3 logical pages per sheet side and Simplex mode
-------------------	--

- **Page copy** : This parameter allows to duplicate the same logical page provided by a .ps or .pdf file a certain number of times (From 1 to 32). This number must be a sub-multiple of the logical pages number per sheet side or equal to this number.
- **Pages** :
  - . **All** : If checked, the output file contains the whole pages of the input job. If not it is possible to select an interval of pages to be composed by indicating the numbers of the first and the last page.

The third tab '**Personalization**' :

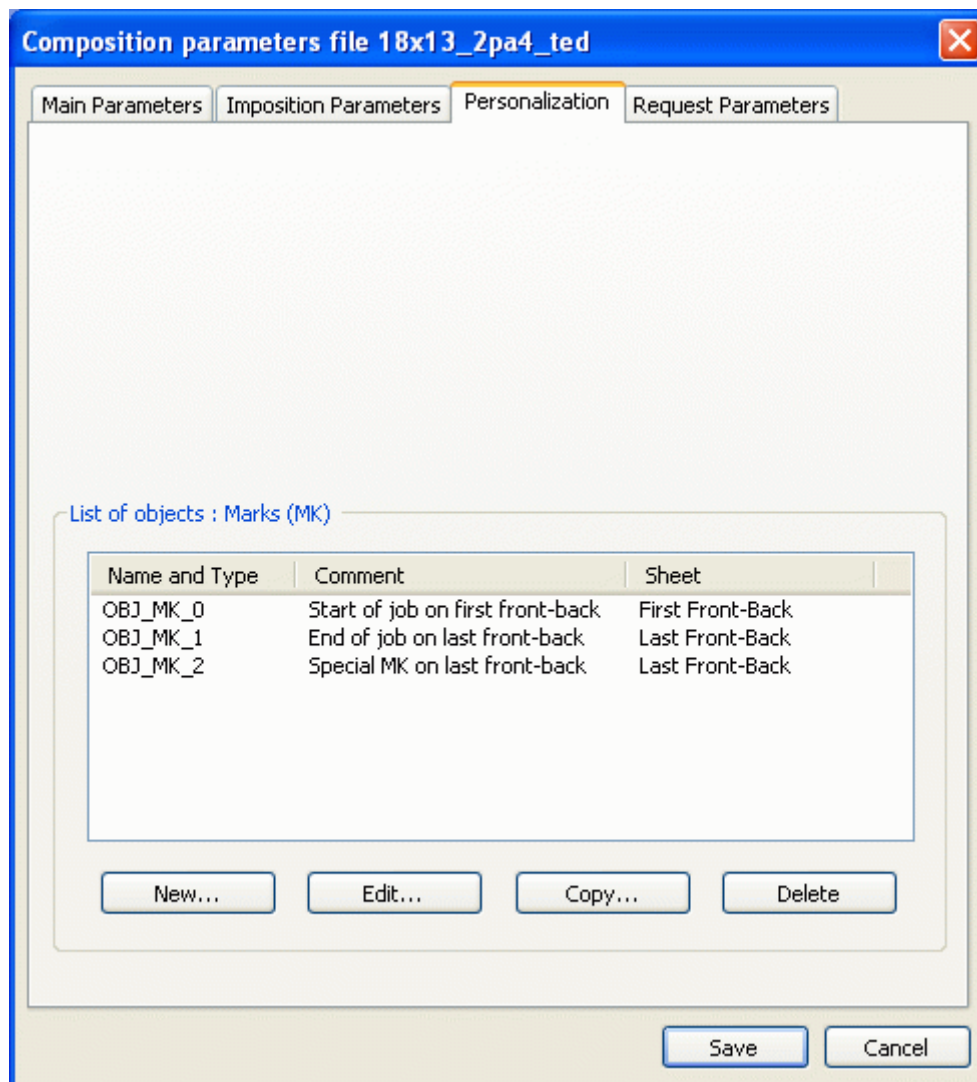


Figure 4-12 Parameters file : 'Personalization' tab

The third tab '**Personalization**' allows to define different objects for job personalization. In the case of **CompPsRipToNpp** composer, the only available personalization objects are objects of '**Mark**' type. On this tab, the list of the defined objects appears. The name of these objects is automatically defined '**OBJ\_MK\_n**' for '**Mark**' type objects, n being an object number. In the list, the objects appear with an (optional) '**Comment**' allowing to the user to specify the role of this object and with an indication '**Sheet**' specifying on which sheets of job the object is positioned.

The list of objects is accompanied by a buttons line allowing to manipulate these objects :

- **'New...'** allows to create a new object.
- **'Edit...'** allows to edit the selected object in the list.
- **'Copy...'** allows to do a copy of the selected object in the list and to edit it to create a new one.
- **'Delete'** allows to delete the selected object in the list.

If no object is selected, only the **'New...'** button is enabled.

If an object is selected, all buttons are enabled as indicated in the figure below :

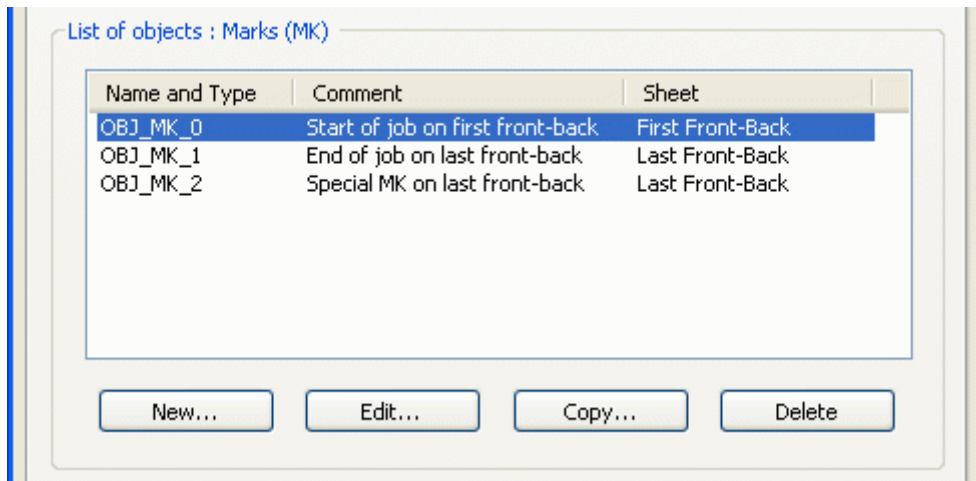


Figure 4-13 Mark object selected

If several objects are selected, the buttons **'New...'** and **'Delete'** are enabled, the buttons **'Edit...'** and **'Copy...'** are disabled as indicated in the figure below :

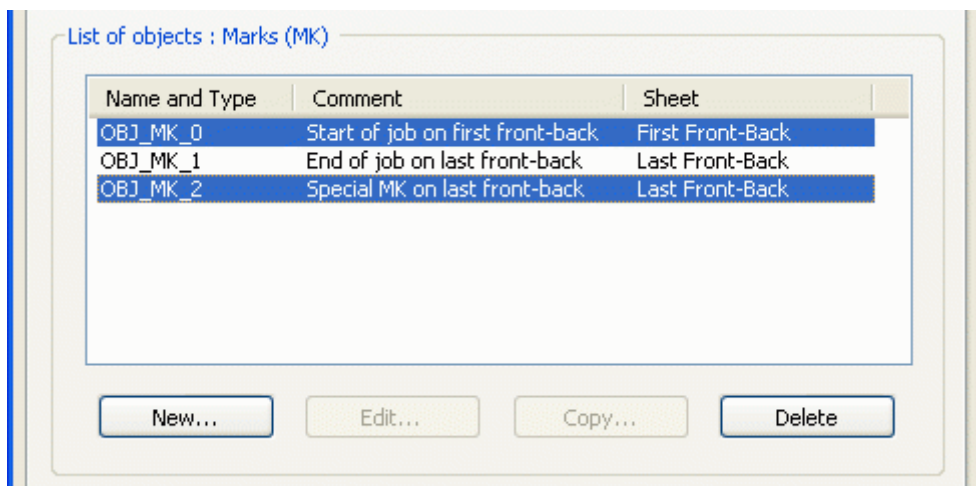


Figure 4-14 Several Mark objects selected

**Edit an object :** The edit an object dialog box come as follows :

Figure 4-15 Edit a Mark object

**Parameters of an Mark object :**

- **Comment associated with the object :**  
Allows to the user to specify the role of this object.
- **Object Type :**  
As indicated previously, in the case of **CompPsRipToNpp** composer, only objects of **'Mark'** type can be defined. The combo box contains only a single type of object.

Figure 4-16 Select the Object Type

- **Object positioned on sheet :**  
Allows to select on which sheet(s) of the job the object must be positioned.

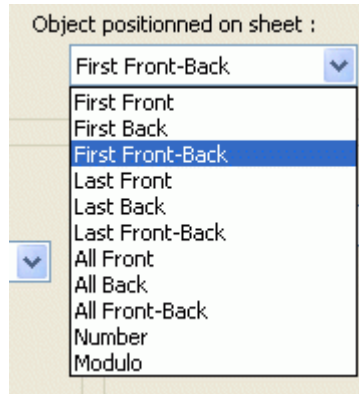


Figure 4-17 Select the position of the object

If the job is simplex type, the Mark objects defined for back sheets are not generated.

In case they choose item '**Number**', an edit control appears to enter the desired sheet number :

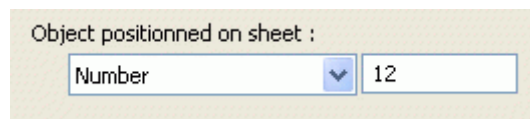


Figure 4-18 Object positioned on the sheet number 12

In case they choose item '**Modulo**', an edit control appears to enter the desired modulo :

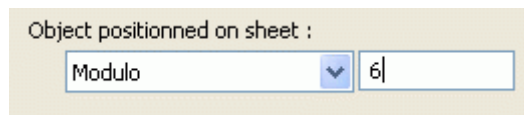
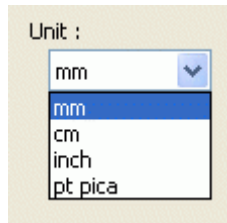


Figure 4-19 Object positioned every 6 sheets

In the example above, the Mark object will be positioned on sheets 6, 12, 18, 24, ...

- **Position and size of the object :**

The four edit control : '**X Position**', '**Y Position**', '**Width**' and '**Height**' allow to define the size and the position of the Mark object in one of 4 units proposed in the combo box '**Unit**' :

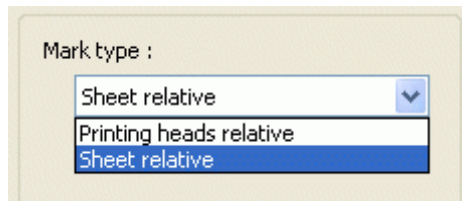


*Figure 4-20 Select the unit*

- **Mark Type :**

The combo box '**Mark Type**' allows to choose between two possibilities :

- Either the X position of the Mark object is **Sheet relative** (default value), therefore is interdependent with job data,
- or the X position of the Mark object is **Printing heads relative**, and in this case, is independent of job data.



*Figure 4-21 Select the Mark Type*

The fourth tab '**Request Parameters**' :

**Composition parameters file 18x13\_2pa4\_ted**

Parameters used only in external mode

☒ Send Printing Request to Nipson PrintServer  
☐ Anticipated Request (After first volume composition)

Number of Copies : 500      Destination : GroupeNPP - (G)  
 Required paper : Papier24x18

**Printing activation**  
☐ By default (Queue)      ☒ Immediate      ☐ Deferred

**Resume mode**  
☐ By default (Queue)      ☒ Automatic      ☐ At the sheet  
    ☐ Manual      ☒ At the copy

**Keep mode for request after printing**  
☐ By default (Queue)      ☐ Don't keep      ☐ Keep indefinitely  
    ☒ Keep 5      ☐ hour(s)  
                                         ☒ day(s)

**Delete printing files when deleting the request**  
☐ By default (Queue)      ☐ Don't delete      ☒ Delete

Save      Cancel

Figure 4-22 Parameters file : 'Request Parameters' tab

This fourth tab '**Request Parameters**' allows to define the needed parameters for the printing request generation to be submitted to a **Nipson PrintServer** application. Use this parameters only if you defined a connection with a **Nipson PrintServer** application (See chapter 3.3.2) and that **PS\_RIP** is used manually as **External PS\_RIP**. In the case of **integrated PS\_RIP**, even if this parameter setting exists, it is not taken into account at the composition time since the request already exists on **Nipson PrintServer** : Composition request which will become automatically printing request at the end of the job composition.

This tab allows to define the following parameters:

- **Send Printing Request to Nipson PrintServer** : Check this item allows to enable the printing request generation to be submitted to a **Nipson PrintServer** application. When this item isn't checked, all the other items in the tab are grayed, these parameters being unused if one doesn't generate a printing request.
- **Anticipated Request (After first volume composition)** : If this item isn't checked, the request will be generated by the Plugin at the end of complete job composition. If this item is checked, the request will be generated by the Plugin as soon as the first volume of the

job is composed. This makes it possible to anticipate the request and thus the printing before the end of the composition. This anticipation will occur obviously only if the size of the job is such as this one is cut out in several volumes.

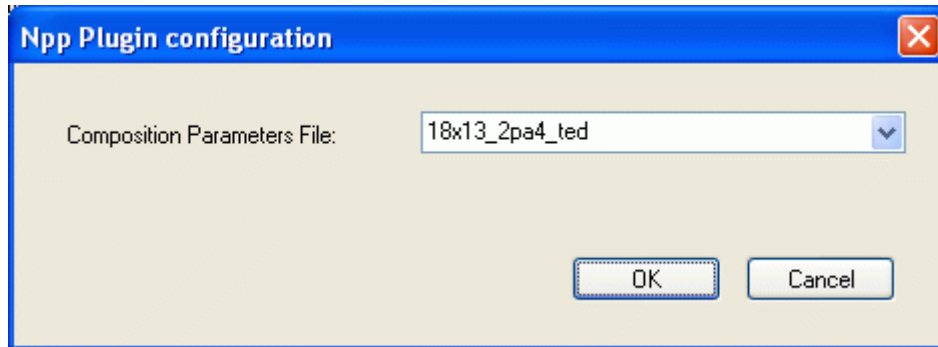
- **Number of copies** : Allows to define the number of job copies to print.
- **Destination** : Allows to choose the request destination in the drop-down list. This destination can be:
  - a printer (or Queue) whose name appears in the list in the form '**name - (Q)**',
  - a group of printers whose name appears in the list in the form '**name - (G)**' : in this case, the job will be printed on the first available printer in the group,
  - the named '**Default Queue**' printer: in this case, the job will be printed on the printer defined as the default printer at the **Nipson PrintServer** application level.
- **Paper** : Allows to choose in the drop-down list the paper which must be mounted on the printer for the job printing. This paper can be:
  - a paper whose name appears in the list,
  - the paper whose name appears in the list in the form '**- None -**' : In this case, the job will be printed without holding account of the mounted paper on the printer.
- **Activation** : Allows to define the initial state of the request at the time of its submitting to **Nipson PrintServer**. 3 cases are possible:
  - **Immediate** : In this case, the request will be created on **Nipson PrintServer** in the '**Wait for printing**' state; It will be automatically printed as soon as the destination printer is available.
  - **Hold** : In this case, the request will be created on **Nipson PrintServer** in the '**Hold**' state; The operator will have to intervene on **Nipson PrintServer** to activate this request.
  - **By default (Queue)** : In this case, initial request state isn't defined here; This state will be that which was defined at the printer (or Queue) level on **Nipson PrintServer**.
- **Restart Mode** : Allows to choose the operating mode in the event of incident on the printer requiring a restart of the printing. 5 cases are possible:
  - **Automatic + At a sheet** : Automatic restart at the sheet.
  - **Automatic + At a copy** : Automatic restart at the copy.
  - **Manual + At a sheet** : Manual restart at the sheet.
  - **Manual + At a copy** : Manual restart at the copy.
  - **By default (Queue)** : In this case, the restart mode will be determined by the equivalent parameter of the destination printer at the moment of printing on **Nipson PrintServer**.
- **Keep Mode** : Request keep mode after printing: Allows to define what becomes a request when it is completely printed. 4 cases are possible:
  - **Dont' keep** : Don't keep the request: The request is automatically deleted in the 5 minutes which follow its printing end.
  - **Keep indefinitely** : Keep the request indefinitely: The request isn't deleted after its printing end.
  - **Keep n hour(s) or day(s)** : Keep the request n hour(s) or day(s): The request can be kept from 1 to 50 hours or days after its printing end before being deleted.
  - **By default (Queue)** : In this case, the keep mode will be determined by the equivalent parameter of the destination printer at the end of printing on **Nipson PrintServer**.

- **Delete printing files when deleting request** : Allows to define what become the **.npp** files associated with a request when this one is manually deleted by the operator or automatically after his keep time. 3 cases are possible:
  - **Don't delete** : Don't delete the job **NPP** files when the request is removed.
  - **Delete** : Delete the job **NPP** files when the request is removed.
  - **By default (Queue)** : In this case, the **.npp** files delete mode will be determined by the equivalent parameter of the destination printer at the end of printing on **Nipson PrintServer**.

For more details on the definition and the using of request parameters, refer to the documentation of the **Nipson PrintServer** application.

#### 4.1.3 NPP Plugin (device) configuration

The **Configure device** button of the **New Page Setup** (or **Edit Page Setup**) dialog box with an **NPP** Plugin selected, displays the following **NPP Plugin configuration** dialog box:



*Figure 4-23 NPP Plugin configuration*

- **Composition Parameters File** allows to select the parameters file to be used for the **NPP** job composition and for the request generation to **Nipson PrintServer** if necessary. The drop-down list gives the list of all the files created using '**Composition parameters file Manager**' described in the previous paragraph 4.1.2.

## 4.2 USING ENHTIFF PLUGIN

To create a Setup Page using EnhTIFF Plugin, use **Page Setup manager** as described in chapter 4.1 above.

### 4.2.1 Creation of a new EnhTIFF Page Setup

To create a new Page Setup, click on '**New...**' in the **Page Setup manager** window; the '**New Page Setup**' window appears:

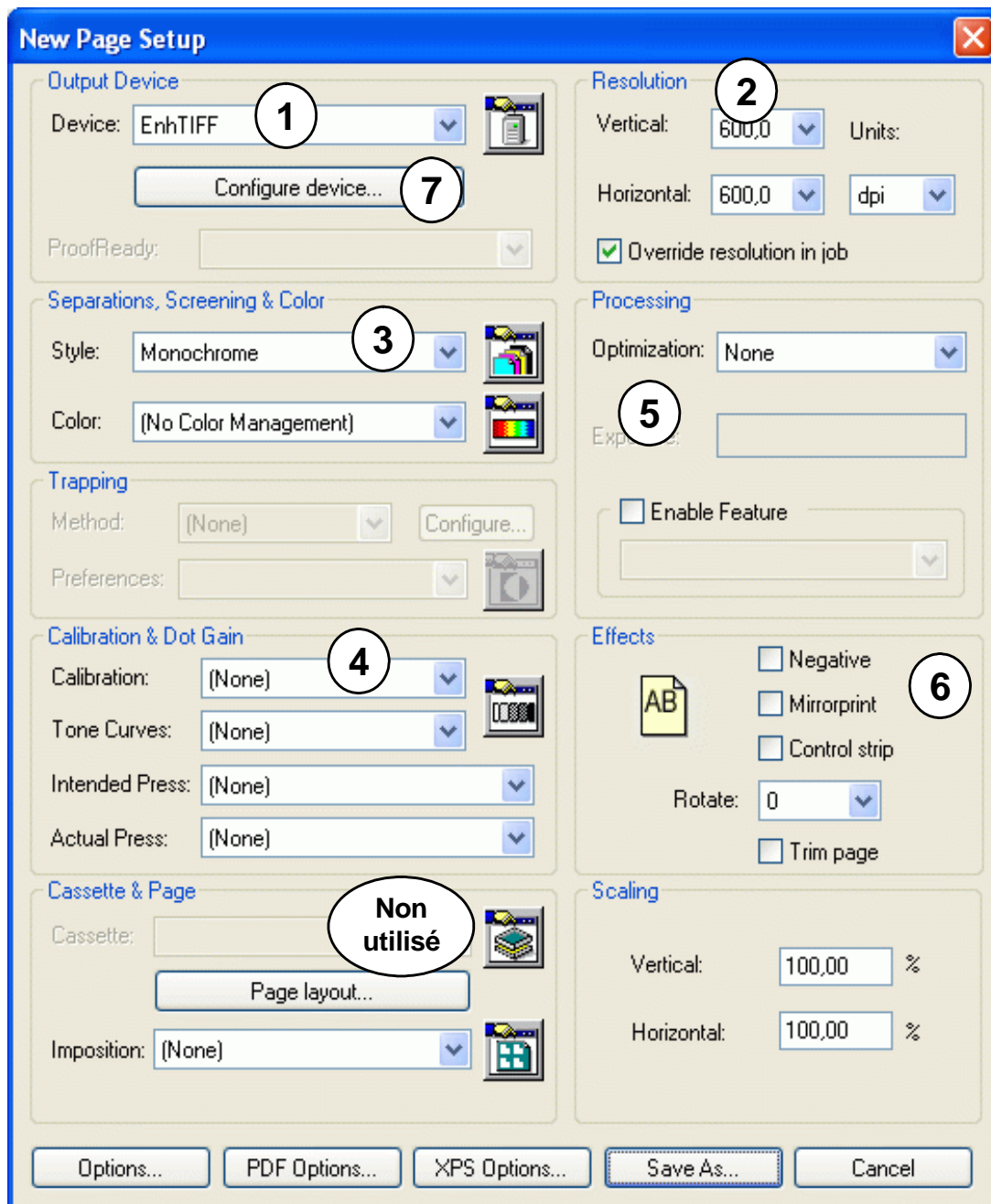


Figure 4-24 New EnhTIFF Page Setup

**(1):** Select **EnhTIFF** device in the **devices** list **(or Plugins)**.

**(2):** Select the resolution corresponding to the target printer. Four resolutions are available : 240 dpi, 300 dpi, 480 dpi and 600 dpi. The checkbox '**Override resolution in job**' must be enabled.

**(3):** For **EnhTIFF** device, select Monochrome in the **Style** list-box. This style exists by default. In case of **EnhTIFF** device, the device itself realizes the dithering function. Thus there is no need to create and use other style than the one proposed by default. In the **Color** list-box, select **(No Color Management)** because we are working in monochrome.

**(4):** In **Calibration** part, select **(None)**. The calibration curves have not to be used with Plugins NIPSON, because the screens used integrate already a calibration curve adapted to the print engine of NIPSON machines.

**(5):** The **Processing** part is normally not useful to print jobs with NIPSON Plugins.

**(6):** The **Effects** and **Scaling** parts can be used if necessary.

**(7):** Click **Configures device** to reach the dialog box of **EnhTIFF** Plugin parameters. See paragraph 4.2.3.

When it is finished, **Save As...** allows to enter a name to the new Page Setup. This one appears in the list. To finish, close the Page Setup list with **OK** button.

#### 4.2.2 Creation of parameters files for EnhTIFF Plugin

Creation of parameters files for **EnhTIFF** Plugin is absolutely identical to the creation parameters files for **NPP** Plugin. Refer to previous **paragraph 4.3.2 : NPP composition Parameters for NPP (or EnhTIFF) Plugin**.

However, all parameters of a composition parameters file are not used in the case of Plugin **EnhTIFF**.

The not used parameters are :

- In the '**Main Parameters**' tab :
  - The Job segmentation in volumes parameters since they do not compose **NPP** Job.
- In the '**Imposition Parameters**' tab :
  - The 'Advanced Trimming' parameter,
  - The VPPSLayout parameter for NPP composition. There is no imposition in the EnhTIFF plugin,
  - The 'Page ordering' parameter,
  - The 'Page copy' parameter.
- In the '**Personalization**' tab :
  - No parameter is used : No personalization.
- In the '**Request Parameters**' tab :
  - No parameter is used : No printing request generated.

Remark concerning parameters **Output file path and name** in the '**Main Parameters**' tab :

The **.tif** files generated by **EnhTIFF** Plugin will be put in the indicated directory. This Plugin generates as many **.tif** files than there are pages in the document. The name of the **.tif** files contains a fixed part to which Plugin automatically adds **a number with 8 digits** and the **.tif** extension. The fixed part can be either the name indicated in the '**File name**' edition zone, or the job name if the check box '**Use input job name as output**' is checked.

The file names will be for example EnhTiff\_00000001.tif, EnhTiff\_00000002.tif, EnhTiff\_00000003.tif, etc...

**Caution:** If the option '**Use input job name as output**' is used, the '**File name**' value depends in fact on the **/Title** variable in the document **.ps** or **.pdf**. If this variable is indicated, it is the contents of this variable, which is used as '**File name**' value. If not, the name of the input file is used.

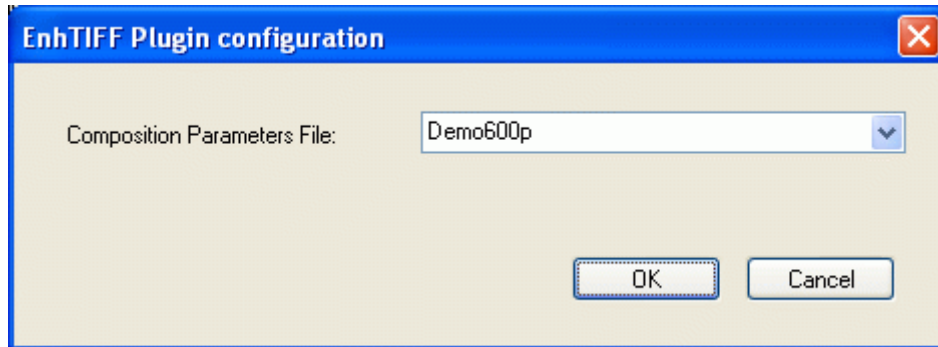
Moreover, if the name of the input file or the contents of the **/Title** variable contains a name with space characters or some special characters, those are automatically replaced by the character '\_' or 'x' so that the name of the output file is compatible with its use in other NIPSON software. In particular, the TIFF file names should not contain 'space' characters.

**Caution:** if **.tif** files with a same name already exist in the output directory, the new ones will overwrite them.

In the '**Imposition Parameters**' tab, the '**Print Quality Parameters File**' parameter is mandatory and is used for the images processing. The generated Tiff files are so compatible with the NIPSON printers printing technology.

#### 4.2.3 Configuration of EnhTIFF Plugin (device)

With an **EnhTIFF** Plugin selected, **Configure device** button in the **New Page Setup** (or **Edit Page Setup**) dialog box displays the following dialog box:



*Figure 4-25 Configuration of EnhTIFF Plugin*

- **Composition Parameters File** allows to select the parameters file to be used for the **TIFF** files generation. The drop-down list gives the list of all the files created using '**Composition parameters file Manager**' described in the previous paragraph 4.1.2.

### 4.3 USING ENHSDP PLUGIN

Recall: This plugin exists only if **SDP option** was installed.

To create a Page Setup using the EnhSDP Plugin, the **Page Setup manager** must be used, as described in the previous chapter 4.1.

#### 4.3.1 Creation of a new Page Setup EnhSDP

To create a new Page Setup, click the 'New...' button in the **Page Setup manager window**; the 'New Page Setup' window will display:

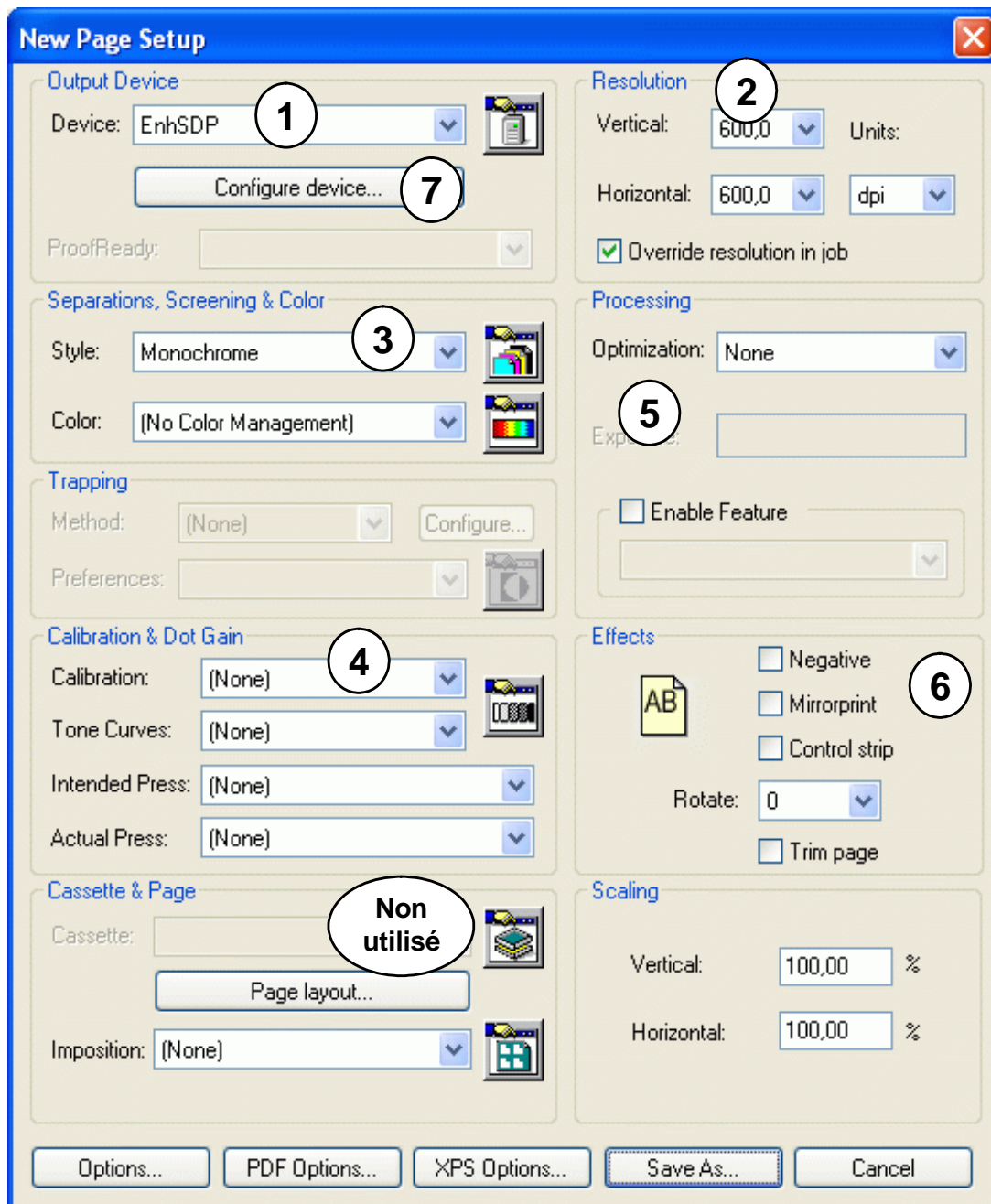


Figure 4-26 New EnhSDP Page Setup

**(1):** Select the **EnhSDP** device in the **devices (or Plugins)** list.

**(2):** Select the resolution corresponding to the target printer. Four resolutions are available : 240 dpi, 300 dpi, 480 dpi and 600 dpi. The checkbox '**Override resolution in job**' must be selected.

**(3):** For the **EnhSDP** device, select in the **Style** list-box the Monochrome style. This style exists by default.

In the case of EnhSDP device, the device itself realizes the dithering function. Thus there is no need to create and use other style than the one proposed by default.

In the **Color** list-box, select (**No Color Management**) because we are working in monochrome.

**(4):** In **Calibration** area, select (**None**). The calibration curves must not be used with NIPSON Plugins, because the used screens already integrate a calibration curve adapted to the print engine of NIPSON machines.

**(5):** The **Processing** part is normally not useful to print job with NIPSON Plugins.

**(6):** The **Effects** and **Scaling** parts may be used if necessary.

**(7):** Click on **Configure device** to reach the specific dialog box of **EnhSDP** Plugin parameter setting. See in paragraph 4.2.3.

When it is finished, **Save As...** button allows to give a name to the new Page Setup. This one appears in the list. To finish, close the Page Setup list with **OK** button.

### 4.3.2 SDP composition Parameters for EnhSDP (or SDP) Plugin

The control of the jobs composition in the **SDP** protocol, integrated in the **EnhSDP** and **SDP** Plugins, is made from composition parameters collected in files which will be associated to the job processing at Page Setup level.

A same parameters file can be used in several Page Setup.

The **EnhSDP** and **SDP** Plugins use the same files.

The parameter files are text files without extension.

This paragraph describes how to create and manage these parameters files.

#### 4.3.2.1 Access to Composition parameters file Manager

To reach the management tool of the parameters files called '**Composition parameters file Manager**', use the item in specific menu at each Plugin (or Device), this one is the third menu starting from the left in the menu bar. If the actual device is not **EnhSDP** (or **SDP**) it is necessary to first select **EnhSDP** (or **SDP**) Plugin by using the '**Select Device...**' item in this menu (See chapter 3.4.1). When **EnhSDP** (or **SDP**) Plugin (or Device) is selected, the '**Composition Parameters ...**' item can then be reached as indicated in figure below :

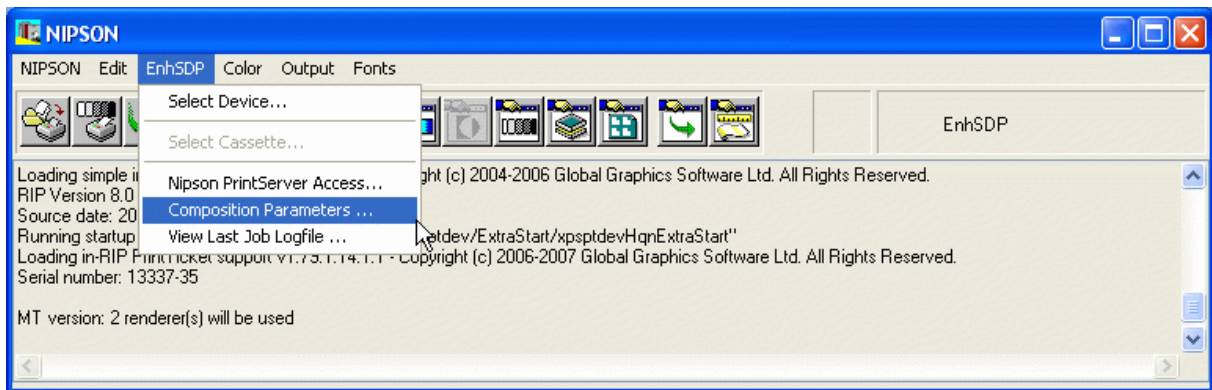


Figure 4-27 Access to Composition parameters file Manager

It is also possible to access to composition parameters in SDP from the module **CompPsRip** in '**PSRIP\_TO\_SDP Composers Manager**' mode.

To start the **CompPsRip** composer in '**PSRIP\_TO\_SDP Composers Manager**' mode use the menu :

**Start->Programs->NIPSON Tools->CompPsRipToNpp->CompPsRip**

One can also use the shortcut '**CompPsRip**' created on the desktop at the time of installation. These two shortcuts starts the application **CompPsRip** without parameter.

They have the following window then :

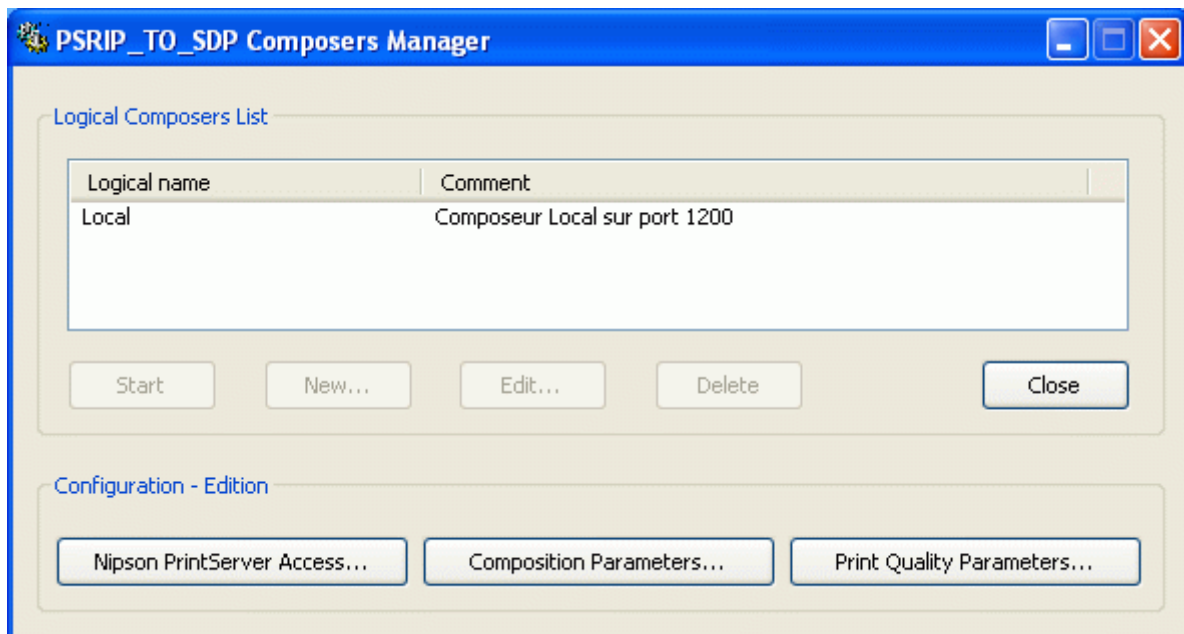


Figure 4-28 CompPsRip in Composers Manager mode

The '**Composition Parameters...**' button allows to access to '**Composition parameters file Manager for PSRIP\_TO\_SDP**' dialog box.

This command opens the '**Composition parameters file Manager for PSRIP\_TO\_SDP**' dialog box :

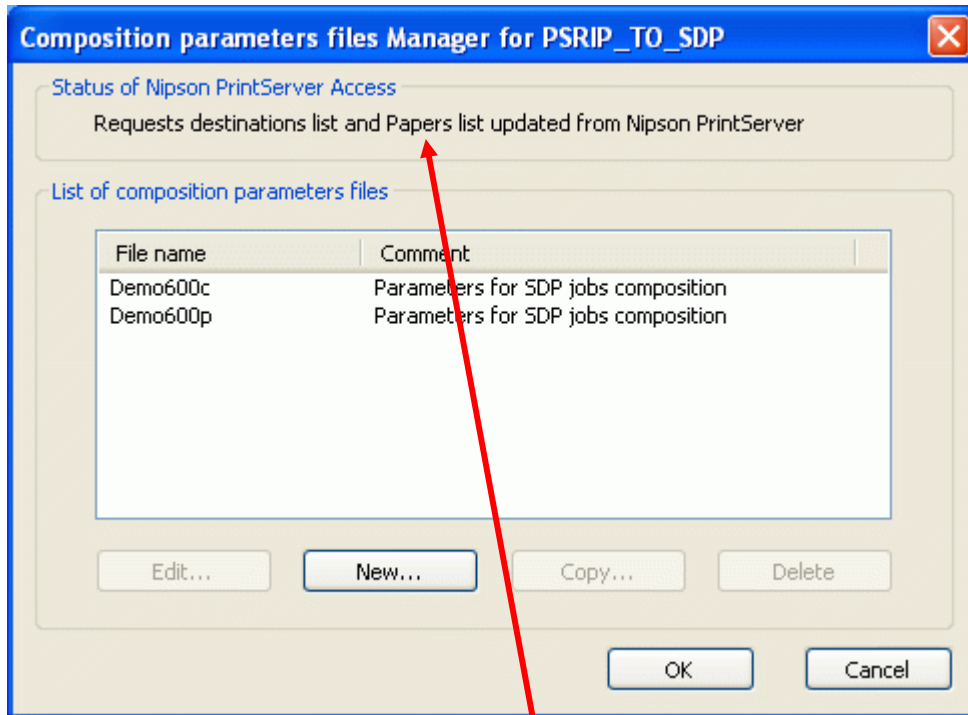


Figure 4-29 SDP composition parameters files list

At the time of the opening of dialog box, if a connection with a **Nipson PrintServer** application is defined (case of an **external PS\_RIP**), the plugin tries to connect itself to this application to obtain and update the printing request destinations list and the papers list. If the connection is possible and is successful, the message above is viewed when opening of the dialog box.

If the connection with **Nipson PrintServer** isn't possible (**Nipson PrintServer** stopped) or not defined, the message below is viewed when opening of the dialog box.

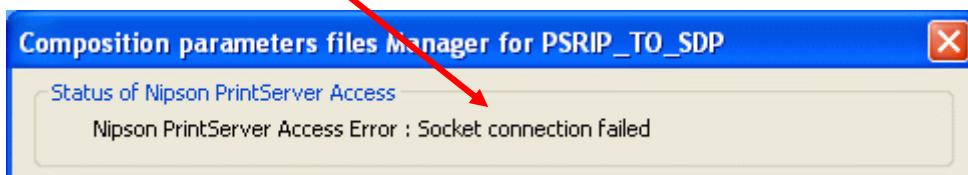


Figure 4-30 SDP composition parameters files list

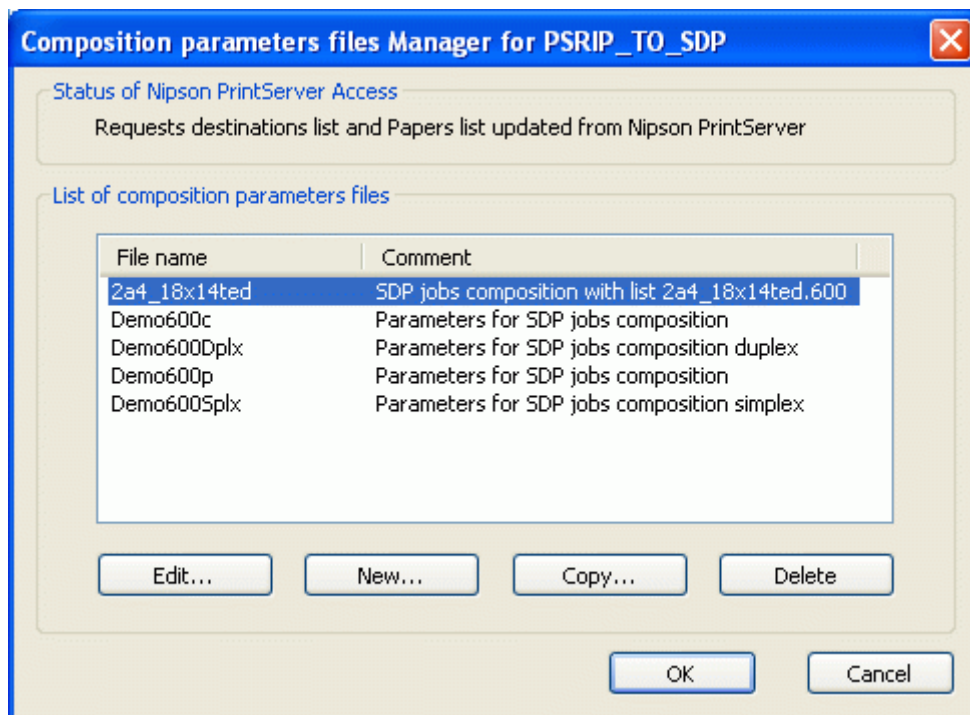


Figure 4-31 SDP composition parameters files list

This window displays the list of composition parameters files which exist with an associated comment. It allows to create, delete and edit the parameters files. We can find the same buttons, '**Edit...**', '**New...**', '**Copy...**', and '**Delete**' than in the **Page Setup Manager** dialog box. Its operation is identical.

To create a new parameters file, use the '**New...**' button. In this case, a default parameter setting is used to initialize the parameters for a new file.

To create a new parameters file, it is also possible to select an existing file and to create a copy of these parameters using the '**Copy...**' button.

The '**Edit...**' button allows to modify the selected file.

The '**Delete**' button allows to delete the selected file.

#### 4.3.2.2 SDP composition Parameters

The parameters dialog box appears as indicated in the figure hereafter. The parameters are gathered in four tabs : the main composition parameters, the imposition specific parameters, the parameters for personalization and finally, the parameters for the printing request generation to be submitted to a **Nipson PrintServer** application.

The first tab '**Main Parameters**' :

The screenshot shows a dialog box titled "Composition parameters file 2a4\_18x14ted" with a close button (X) in the top right corner. The dialog has four tabs: "Main Parameters" (selected), "Imposition Parameters", "Personalization", and "Request Parameters".

Under the "Main Parameters" tab, the following fields and controls are visible:

- Comment:** A text box containing "SDP jobs composition with list 2a4\_18x14ted.600".
- Output file path and name:** A text box containing "D:\Jobs\JobSdp" with a folder icon to its right.
- ☒ **Use input job name as output**
- File Name (without extension) :** An empty text box.
- Job Index mode:** A dropdown menu showing "Indexed for Nipson PrintServer".
- Job segmentation in volumes (Index for Nipson PrintServer):**
  - Maximum Size of the Volumes (10 to 500 Mb) :** A text box containing "200" followed by "Mbytes".
  - Maximum Number of Pages in Volumes (50 to 10000) - (0 = Disable the parameter) :** A text box containing "0" followed by "page(s)".
- Composition module trace:**
  - Trace Level :** A dropdown menu showing "Error Traces".
  - Maximum size for trace file :** A slider control ranging from "1 Mb" to "10 Mb", with a green marker positioned at "4 Mb".

At the bottom right of the dialog, there are two buttons: "Save" and "Cancel".

Figure 4-32 Parameters file : 'Main Parameters' tab

Note that the '**Save**' button in this dialog box is replaced by a '**Save As...**' button when it is a new parameters file (Access by '**New...**' or '**Copy...**').

The first tab '**Main Parameters**' allows to define the following parameters:

- **Comment** : It allows to associate a comment to the parameters file. This comment appears in the parameters files list of the dialog box '**Composition parameters file Manager for PSRIP\_TO\_SDP**' and it makes the identification of the parameters file better.  
The maximum length of this comment is 255 characters.
- **Output file path and name** allows to select the output directory for **SDP** files generated by the composition module. It is possible to indicate:
  - a directory on a local disk (for example : d:\Jobs\JobNpp) if **Nipson PrintServer** is installed on the same station
  - a directory identified with its network name (for example : [\\NPrintServer\Jobs\JobSdp](#)) if **Nipson PrintServer** is installed on an another station that the composer.

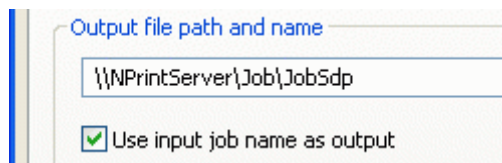


Figure 4-33 Parameters file : Network path

Add then manually the name of the output file in **File name** or check **Use input job name as output** (recommended option) ; The output file has then the same name as input file with **.sdp** extension.

**Caution:** If **Use job name as output** option is checked, the output file name depends in fact on the /Title variable of .ps or .pdf document. If this variable is indicated, the content of this variable is used as file name. If not, the name of the input file is used. Moreover, if the name of the input file or the contents of the /Title variable contains a name with space characters or some special characters, those are automatically replaced by the character '\_' or 'x' so that the name of the output file is compatible with its use in the printer or other NIPSON software. In particular, the **SDP** file names should not contain 'space' characters.

- **Job Index mode** : Allows to select the indexing mode of SDP files according to the use of these SDP files. One can choose 4 modes:

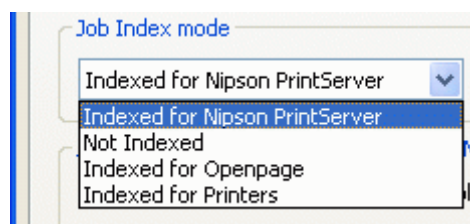


Figure 4-34 Parameters file : Job Index mode

- **. Indexed for Nipson PrintServer** : Indexed SDP files compatible with the **Nipson PrintServer** application. Use this option if the SDP file must be printed on a **Nipson PrintServer** station. It should be noted that it is the selection of this indexing mode which causes the segmentation of SDP jobs in volumes.
- **. Not indexed** : Not indexed SDP files.
- **. Indexed for OpenPage** : Indexed SDP files compatible with **OpenPage**. Use this option if the SDP file must be printed using a **NIPSON OpenPage** server.
- **. Indexed for printers** : Indexed SDP files compatible with printer. Use this option if the SDP file is printed directly on the printer.

- **Volumes segmentation :**

The volumes segmentation takes place only if the Job index mode is : '**Indexed for Nipson PrintServer**'.

The two parameters '**Maximum Size (in MBytes) of Job Volumes**' and '**Maximum Number of Pages in Job Volumes**' make it possible to define the maximum size of **volumes (files) SDP** according to two criteria: either a size of file, or a number of pages. At the composition time, as soon as the current volume size or number of pages of current volume reaches the maximum value indicated, volume is closed and another is created. For the volume size, use values going from 10 to 500 MBytes. 200 Mbytes size is a good value.

For the number of pages of a volume, use values going from 50 to 10000. 250 pages is a good value. One can also specify a zero value to disable this parameter (In this case, only the size is used for segmentation).

- **Composition module traces :**

While SDP composition, a traces file can be asked. 4 levels of traces can be selected :

- No Trace.
- Error Traces.
- Normal Traces.
- All Traces.

The traces are placed in a file named '**PsRip.txt**' in the directory :

**C:\Program Files\Nipson\NIPSON\_HarlequinRIP8.0r0\CompPsRip\Traces**

The maximum size of this file can be defined between 1 and 10 Mbytes. When the maximum size is reached, the file of traces is renamed in '**PsRip.old**' and a new file '**PsRip.txt**' is created.

**Caution :** Concerning the **SDP** file names, at the composition time of a new job, if the required **SDP** file name already exists, this one isn't overwritten, but a new file is created while adding to the required name an automatic indexing '**\_n**' where n is an automatically incremented number.

The second tab '**Imposition Parameters**' :

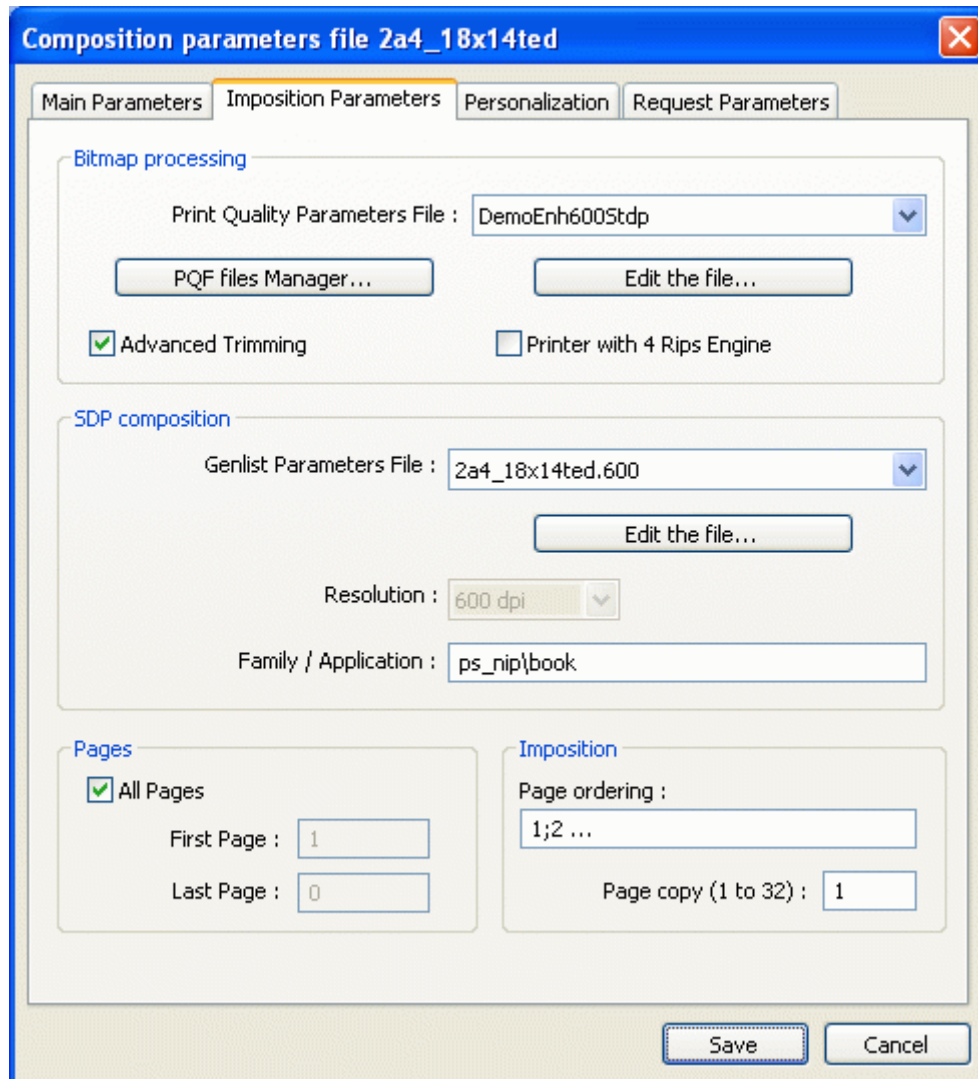


Figure 4-35 Parameters file : 'Imposition Parameters' tab

The second tab '**Imposition Parameters**' allows to define the following parameters:

- **Bitmap processing :**
  - . **Advanced trimming** : This function allows to optimize the coding of the **SDP** bitmaps so as to improve the performances of the machine during printing.
  - . **Printer with 4 RIP Engine** must be checked in the case of quadri RIP printer like the NIPSON T700 or NIPSON 8000 with RIP3; this option will optimize the use of the different RIPs in the printer.  
Do not check this option with the NIPSON 8000, VP200, VP400, etc... RIP4 printers.
  - . **Print Quality Parameters File** : allows to select the **.pqf** file to use for the processing of images coded in colors or in grey levels. The combo box gives the list of all the **.pqf** files created with the button '**Print Quality Files...**' of the composer in Composers Manager mode.  
The button '**PQF Files Manager...**' allows to access directly to the Print Quality parameters Manager.  
The button '**Edit the file...**' allows to access directly to the edition of **.pqf** file selected in the combo box.

The NIPSON image processing sequence starts from a **bitmap in gray levels** (256 gray levels) corresponding to the page in progress provided by the **Harlequin RIP**. The process consists to transform this bitmap into a **black and white bitmap** by applying various processes. These main processes are:

- the histograms correction of the images contained in a page,
- the images dithering according to specific modes adapted to the print engine of NIPSON printers.

(See the document **UG\_PQF\_FilesManager.pdf** for more information on PQF files).

- **Genlist Parameters File** : This mandatory parameter allows to choose a parameters file representing the imposition of logical pages made up of .ps or .pdf job pages. The combo box contains an imposition parameters files list created by the **NIPSON Genlist32** application. These imposition files represent the sheet size used, the position of the logical pages in the sheet, the printing mode (**Simplex** or **Duplex**), the staple mode, the overlays associated with sheets and logical pages. See the documentation **UGGlist.pdf** for a detailed description of this application. The extension of the **Genlist** parameters file indicates the resolution (density) in which the layout has been defined. In the case of PS\_RIP, the resolution of the job to be composed is defined at the Page Setup parameters level. Therefore, choose a layout preferably having the same resolution as that of Page Setup. Note that in this case, the combo box '**Resolution**' is disabled.

When a file of the list is selected, the '**Edit the file...**' button allows to start automatically the **Genlist32** application to see or edit the contents of the corresponding parameters file.

The combo box contains two particular names : **#DuplexAuto** and **#SimplexAuto** (figure below) which do not correspond to parameters files created by **Genlist32**. These two items are in fact commands of automatic imposition to be used in cases where the imposition is already made at the .ps or .pdf files level by the application which generated them. In these two cases, the sheet size is equal to that of the logical page contained in the .ps or .pdf file. They use **#DuplexAuto** if they want a Duplex job or **#SimplexAuto** if they want a Simplex job.

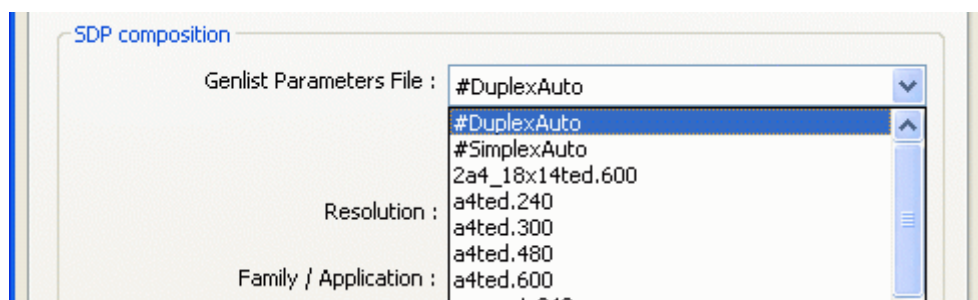


Figure 4-36 Automatic Genlist parameters file

In these two cases, the combo box '**Resolution**' is also disabled, this one being defined at Page Setup level. Note also that in this case, the '**Edit the file...**' button is disabled.

**Caution:** Choose a parameter list corresponding to the target printer. In particular, use a list having the resolution according to the printer's one.

- **Page ordering** : This parameter is a complement of the Genlist parameters file. It allows to define the order in which the logical pages provided by .ps or .pdf files must be imposed. Attention, this one must be coherent with the Genlist parameters file.

Examples :

3;2;1	with imposition of 3 logical pages per sheet side and Simplex mode
3;2;1;6;5;4	with imposition of 3 logical pages per sheet side and Duplex mode
2 1 4 3 6 5 8 7	with imposition of 4 logical pages per sheet side and Duplex mode

To separate the page numbers, one can use character ';' or space character.

They can have a page ordering table longer than the number of logical pages described in the Genlist parameters file, but in that case, the number of logical pages in the ordering table must be a multiple of the logical pages number per sheet side.

Example :

9;7;5;3;1;2;4;6;8	with imposition of 3 logical pages per sheet side and Simplex mode
-------------------	--

- **Page copy** : This parameter allows to duplicate the same logical page provided by a .ps or .pdf file a certain number of times (From 1 to 32). This number must be a sub-multiple of the logical pages number per sheet side or equal to this number.
- **Pages** :
  - . **All** : If checked, the output file contains the whole pages of the input job. If not it is possible to select an interval of pages to be composed by indicating the numbers of the first and the last page.

The third tab '**Personalization**' :

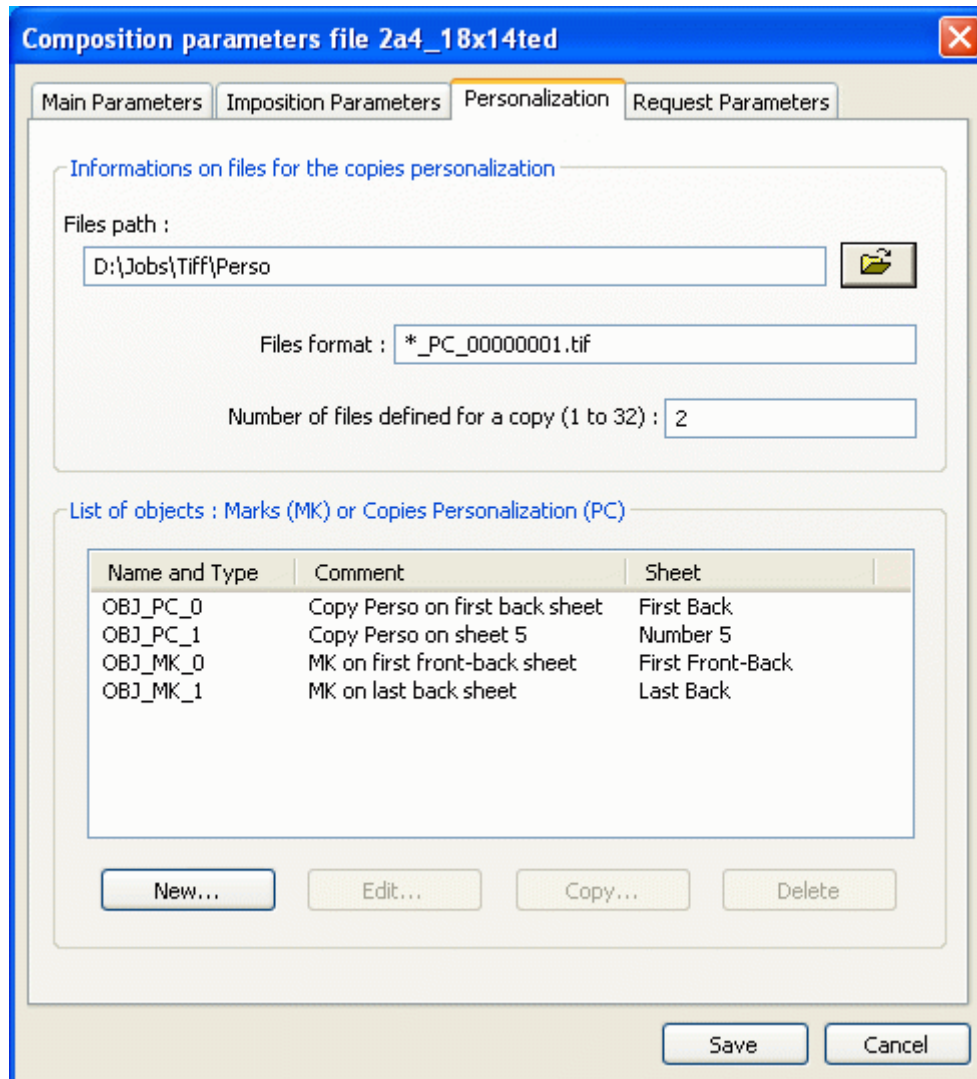


Figure 4-37 Parameters file : '**Personalization**' tab

The third tab '**Personalization**' allows to define different objects for job personalization. In the case of **CompPsRip**, two types of personalization objects are available :

- '**Copy Personalization**' type objects,
- '**Mark**' type objects.

On this tab, the list of the defined objects appears. The name of these objects is defined automatically :

- '**OBJ\_PC\_n**' for '**Copy Personalization**' type objects,
  - '**OBJ\_MK\_n**' for '**Mark**' type objects,
- n being an object number.

In the list, the objects appear with an (optional) '**Comment**' allowing to the user to specify the role of this object and with an indication '**Sheet**' specifying on which sheets of job the object is positioned.

The list of objects is accompanied by a buttons line allowing to manipulate these objects :

- **'New...'** allows to create a new object.
- **'Edit...'** allows to edit the selected object in the list.
- **'Copy...'** allows to do a copy of the selected object in the list and to edit it to create a new one.
- **'Delete'** allows to delete the selected object in the list.

If no object is selected, only the **'New...'** button is enabled.

If an object is selected, all buttons are enabled as indicated in the figure below :

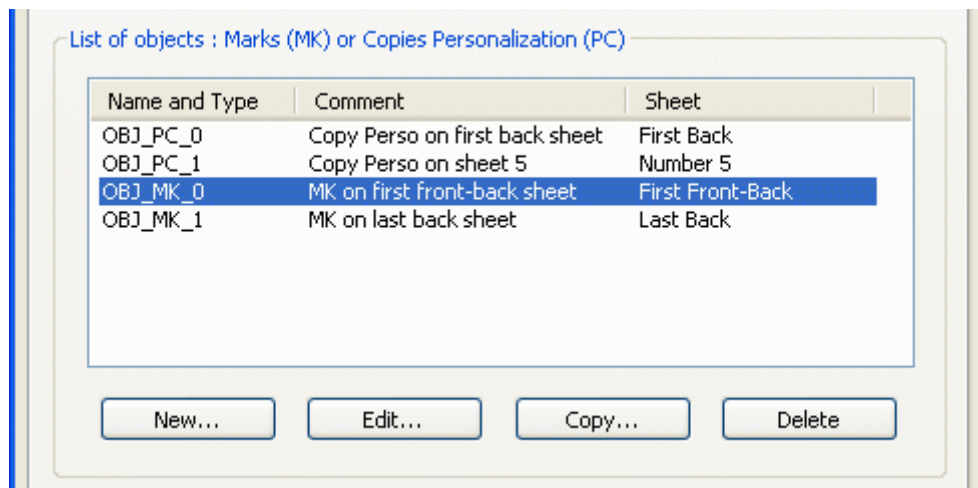


Figure 4-38 Mark object selected

If several objects are selected, the buttons **'New...'** and **'Delete'** are enabled, the buttons **'Edit...'** and **'Copy...'** are disabled as indicated in the figure below :

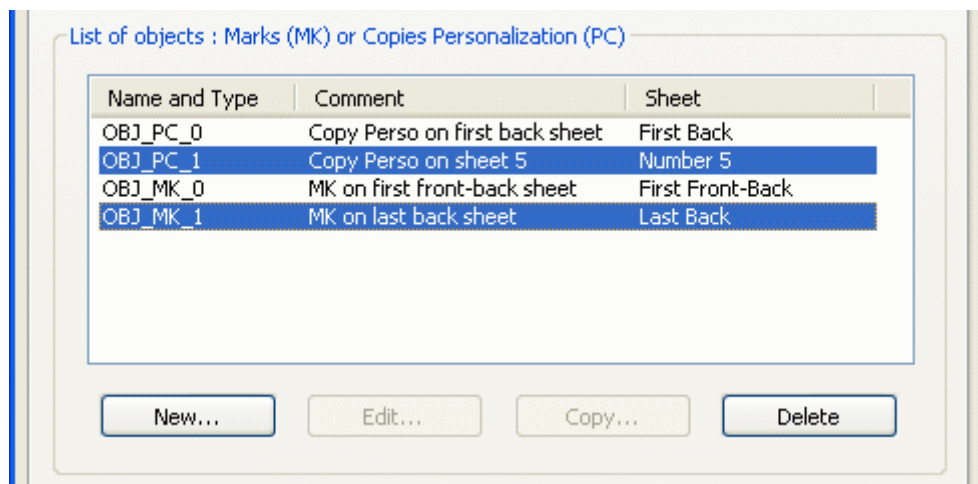


Figure 4-39 Several Mark objects selected

**Edit a 'Mark' type object :** The edit a 'Mark' type object dialog box come as follows :

*Figure 4-40 Edit a Mark object*

**Parameters of a Mark object :**

- **Comment associated with the object :**  
Allows to the user to specify the role of this object.
- **Object Type :**  
In the combo box, select the type '**Mark**'.

*Figure 4-41 Select the Object Type*

- **Object positioned on sheet :**

Allows to select on which sheet(s) of the job the object must be positioned.

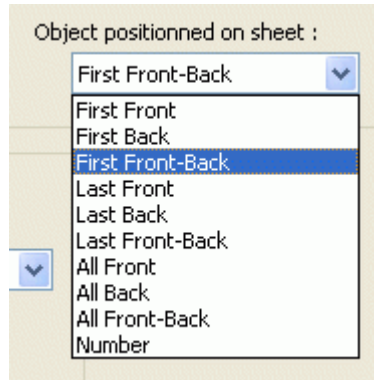


Figure 4-42 Select the position of the object

If the job is simplex type, the Mark objects defined for back sheets are not generated.

In case they choose item '**Number**', an edit control appears to enter the desired sheet number :

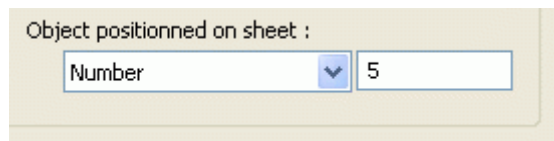


Figure 4-43 Object positioned on the sheet number 5

- **Position and size of the object :**

The four edit control : '**X Position**', '**Y Position**', '**Width**' and '**Height**' allow to define the size and the position of the Mark object in one of 4 units proposed in the combo box '**Unit**' :

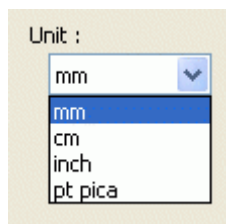


Figure 4-44 Select the unit

**'Copy Personalization' type object :**

In the case of printing job in multi copies, it is possible to personalize every copy of this job by adding pictures from TIFF format files in one or some areas designed for that.

For that, it is necessary to define parameters associated with TIFF files : Path and format, and to define then the copy personalization objects allowing to position TIFF files in job.

The parameters associated with TIFF files are defined in the **'Personalization'** tab as indicated below :

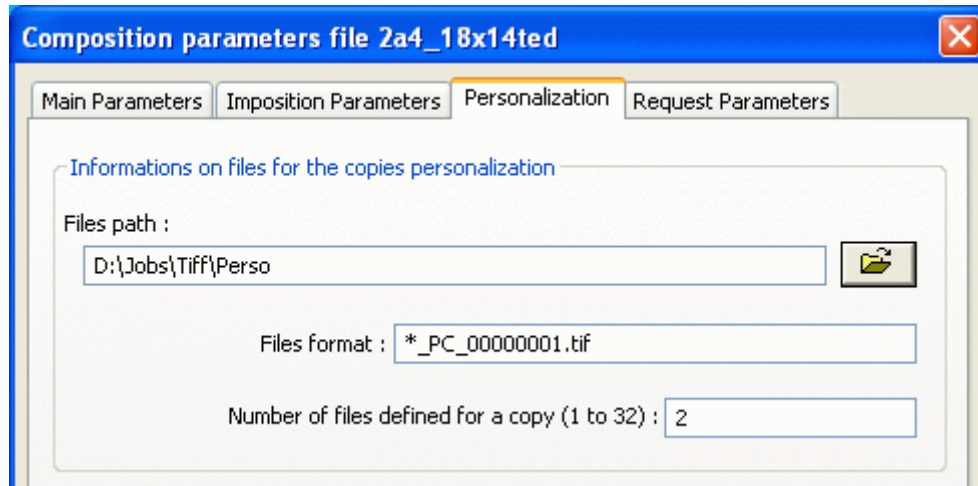


Figure 4-45 Edition des objets de personnalisation des copies d'un job

**'Files path'** allows to indicate in which directory are the TIFF files for the personalization.

**'Files format'** allows to indicate which files to use in this directory.

In the example, if it is used, the '\*' character will be replaced by the job name.

In the example, the **\_PC\_** part allows to differentiate the name of the personalization job from the name of the job to be personalized. For example, if 'BookAbcd.pdf' is the name of the job to be personalized, 'BookAbcd\_PC\_.pdf' is the name of the job containing the pictures for the personalization, this job giving files 'BookAbcd\_PC\_nnnnnnnn.tif' by using the EnhTIFF plugin. The numeric part **00000001.tif** allows to indicate the numbering format and the number of the first file. Here the 00000001.tif format is the 8 digits fixed format : %8.8d corresponding to the output format of the EnhTIFF plugin. The 00001.tif value would indicate a 5 digits fixed format : %5.5d. The 1.tif value would indicate a variable format : %d.

**'Number of files defined for a copy'** allows to indicate how many TIFF files will be used for each copy. In the example, the value 2 means that :

the 00000001.tif and 00000002.tif files will be used for the copy 1 of the job,  
the 00000003.tif and 00000004.tif files will be used for the copy 2 of the job,  
etc. ...,

The same TIFF file can be used several times in the same copy of the job. For that, it is enough to create several copy personalization objects referring to the same file number.

**This copy personalization function must be used only if they use a connection with the Nipson PrintServer server.**

**Edit a 'Copy Personalization' type object :** The edit a 'Copy Personalization' type object dialog box come as follows :

Figure 4-46 Edit a Copy Personalization object

**Parameters of a 'Copy Personalization' object :**

- **Comment associated with the object :**  
Allows to the user to specify the role of this object.
- **Object Type :**  
In the combo box, select the type '**Copy Personalization**'.

Figure 4-47 Select the Object Type

- **File Number :**

In the combo box, select the file number to be associated with the object. The combo box contains so much items as pointed out in '**Number of files defined for a copy**' parameter of the '**Personalization**' tab :

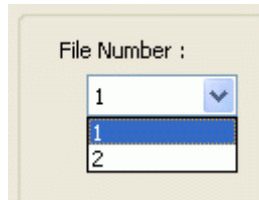


Figure 4-48 Select the File Number

- **Object positioned on sheet :**

Allows to select on which sheet(s) of the job the object must be positioned.

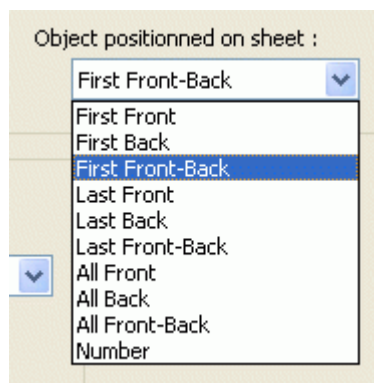


Figure 4-49 Select the position of the object

If the job is simplex type, the Mark objects defined for back sheets are not generated.

In case they choose item '**Number**', an edit control appears to enter the desired sheet number :

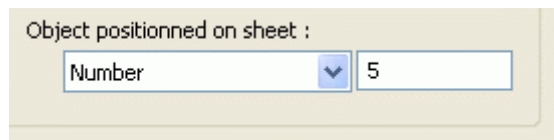
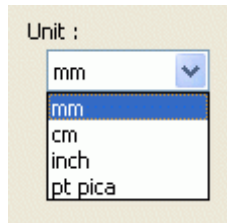


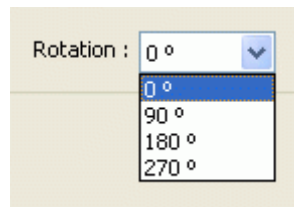
Figure 4-50 Object positioned on the sheet number 5

- **Position and size of the object :**

The three edit control : '**X Position**', '**Y Position**' and '**Rotation**' allow to define the position of the object in one of 4 units proposed in the combo box '**Unit**' and the orientation of the object in the sheet :



*Figure 4-51 Select the unit*



*Figure 4-52 Select the rotation*

The size of the object are those of the picture contained in the TIFF file.

The fourth tab '**Request Parameters**' :

Figure 4-53 Parameters file : '**Request Parameters**' tab

This fourth tab '**Request Parameters**' allows to define the needed parameters for the printing request generation to be submitted to a **Nipson PrintServer** application. Use this parameters only if you defined a connection with a **Nipson PrintServer** application (See chapter 3.3.2) and that **PS\_RIP** is used manually as **External PS\_RIP**. In the case of **integrated PS\_RIP**, even if this parameter setting exists, it is not taken into account at the composition time since the request already exists on **Nipson PrintServer** : Composition request which will become automatically printing request at the end of the job composition.

This tab allows to define the following parameters:

- **Send Printing Request to Nipson PrintServer** : Check this item allows to enable the printing request generation to be submitted to a **Nipson PrintServer** application. When this item isn't checked, all the other items in the tab are grayed, these parameters being unused if one doesn't generate a printing request.
- **Anticipated Request (After first volume composition)** : If this item isn't checked, the request will be generated by the Plugin at the end of complete job composition. If this item is checked, the request will be generated by the Plugin as soon as the first volume of the

job is composed. This makes it possible to anticipate the request and thus the printing before the end of the composition. This anticipation will occur obviously only if the size of the job is such as this one is cut out in several volumes.

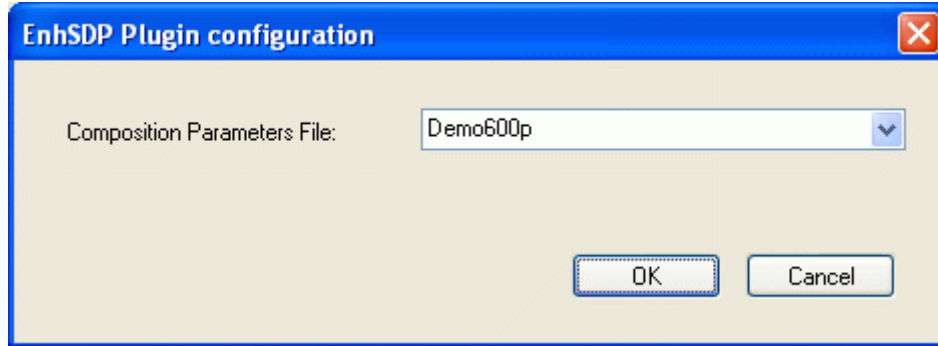
- **Number of copies** : Allows to define the number of job copies to print.
- **Destination** : Allows to choose the request destination in the drop-down list. This destination can be:
  - a printer (or Queue) whose name appears in the list in the form '**name - (Q)**',
  - a group of printers whose name appears in the list in the form '**name - (G)**' : in this case, the job will be printed on the first available printer in the group,
  - the named '**Default Queue**' printer: in this case, the job will be printed on the printer defined as the default printer at the **Nipson PrintServer** application level.
- **Paper** : Allows to choose in the drop-down list the paper which must be mounted on the printer for the job printing. This paper can be:
  - a paper whose name appears in the list,
  - the paper whose name appears in the list in the form '**- None -**' : In this case, the job will be printed without holding account of the mounted paper on the printer.
- **Activation** : Allows to define the initial state of the request at the time of its submitting to **Nipson PrintServer**. 3 cases are possible:
  - **Immediate** : In this case, the request will be created on **Nipson PrintServer** in the '**Wait for printing**' state; It will be automatically printed as soon as the destination printer is available.
  - **Hold** : In this case, the request will be created on **Nipson PrintServer** in the '**Hold**' state; The operator will have to intervene on **Nipson PrintServer** to activate this request.
  - **By default (Queue)** : In this case, initial request state isn't defined here; This state will be that which was defined at the printer (or Queue) level on **Nipson PrintServer**.
- **Restart Mode** : Allows to choose the operating mode in the event of incident on the printer requiring a restart of the printing. 5 cases are possible:
  - **Automatic + At a sheet** : Automatic restart at the sheet.
  - **Automatic + At a copy** : Automatic restart at the copy.
  - **Manual + At a sheet** : Manual restart at the sheet.
  - **Manual + At a copy** : Manual restart at the copy.
  - **By default (Queue)** : In this case, the restart mode will be determined by the equivalent parameter of the destination printer at the moment of printing on **Nipson PrintServer**.
- **Keep Mode** : Request keep mode after printing: Allows to define what becomes a request when it is completely printed. 4 cases are possible:
  - **Dont' keep** : Don't keep the request: The request is automatically deleted in the 5 minutes which follow its printing end.
  - **Keep indefinitely** : Keep the request indefinitely: The request isn't deleted after its printing end.
  - **Keep n hour(s) or day(s)** : Keep the request n hour(s) or day(s): The request can be kept from 1 to 50 hours or days after its printing end before being deleted.
  - **By default (Queue)** : In this case, the keep mode will be determined by the equivalent parameter of the destination printer at the end of printing on **Nipson PrintServer**.

- **Delete printing files when deleting request** : Allows to define what become the **.sdp** files associated with a request when this one is manually deleted by the operator or automatically after his keep time. 3 cases are possible:
  - **Don't delete** : Don't delete the job **SDP** files when the request is removed.
  - **Delete** : Delete the job **SDP** files when the request is removed.
  - **By default (Queue)** : In this case, the **.sdp** files delete mode will be determined by the equivalent parameter of the destination printer at the end of printing on **Nipson PrintServer**.

For more details on the definition and the using of request parameters, refer to the documentation of the **Nipson PrintServer** application.

#### 4.3.3 Configuration of (device) EnhSDP Plugin

With an **EnhSDP** Plugin selected, **Configure device** in the **New Page Setup** dialog box (or **Edit Page Setup**) displays the following **EnhSDP Plugin configuration** dialog box:



*Figure 4-54 Configuration of EnhSDP Plugin*

- **Composition Parameters File** allows to select the parameters file to be used for the **SDP** job composition and for the request generation to **Nipson PrintServer** if necessary. The drop-down list gives the list of all the files created using '**Composition parameters file Manager**' described in the previous paragraph 4.3.2.

#### 4.4 USING SDP PLUGIN

To create a Page Setup using the SDP Plugin, the **Page Setup manager** must be used, as described in the previous chapter 4.1.

##### 4.4.1 Creation of a new SDP Page Setup

To create a new **Page Setup**, click on the 'New...' button, the 'New Page Setup' window appears:

**New Page Setup**

**Output Device**

Device: **SDP** 1

**Configure device...** 7

ProofReady: 7

**Resolution** 2

Vertical: **600,0** Units:

Horizontal: **600,0** **dpi**

☒ Override resolution in job

**Separations, Screening & Color**

Style: **S96pPSR\_Std12\_600** 3

Color: **(No Color Management)**

**Trapping**

Method: **(None)** **Configure...**

Preferences: 7

**Calibration & Dot Gain**

Calibration: **(None)** 4

Tone Curves: **(None)**

Intended Press: **(None)**

Actual Press: **(None)**

**Processing**

Optimization: **None**

Exp.: 5

☐ Enable Feature

**Effects**

☐ Negative 6

☐ Mirrorprint

☐ Control strip

Rotate: **0**

☐ Trim page

**Cassette & Page**

Cassette: Non utilisé

**Page layout...**

Imposition: **(None)**

**Scaling**

Vertical: **100,00** %

Horizontal: **100,00** %

**Options...** **PDF Options...** **XPS Options...** **Save As...** **Cancel**

Figure 4-55 New Page Setup

**(1):** Select the **SDP** device in the list of **devices (or Plugins)**.

**(2):** Select the printer resolution, only 480 dpi or 600 dpi resolutions can be used. The checkbox '**Override resolution in job**' must be enabled.

**(3):** The list of the styles, which exist for the SDP device appears in the **Style** list-box. Select one of the styles. See the creation of styles in paragraph 4.4.2.

In the **Color** list-box, select (**No Color Management**) since the printer is operating in monochrome.

**(4):** In **Calibration** area, select (**None**). The calibration curves have not to be used with Plugins NIPSON, because the used screens (see Style) integrate already a calibration curve adapted to the print engine of NIPSON machines.

**(5):** The **Processing** part is normally not useful to print jobs with NIPSON Plugins.

**(6):** The **Effects** and **Scaling** parts can be used if necessary.

**(7):** Click on **Configures device** button to reach the dialog box of SDP Plugin parameters. See paragraph 4.4.4.

When it is finished, **Save As...** button allows to enter a name to the new Page Setup. This one appears in the list. To finish, close the Page Setup list with **OK** button.


#### 4.4.2 Creation of styles for SDP Plugin

To create a style for SDP Plugin usable in a Page Setup, use the '**Separations Manager**'.

This one can be reached either from item '**Separations Manager...**' in **Colors** menu, or with

the button  in the tool bar.

It can also be reached directly since the dialog box '**New or Edit Page Setup**'; by using button

 in the part '**Separations, screening and color**'.

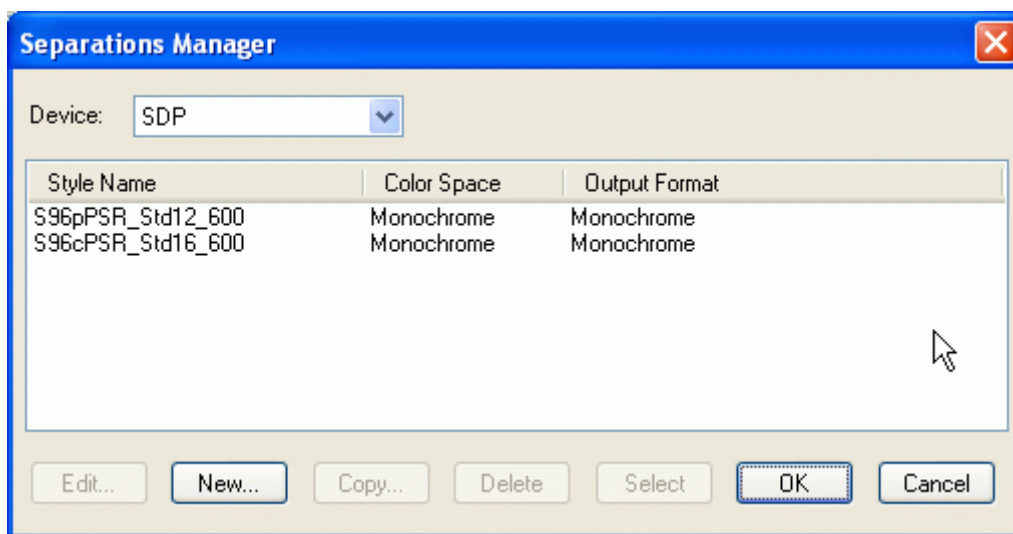


Figure 4-56 List of styles

This window displays the list of the styles existing with their main characteristics for the selected device (Plugin). Note that the device cannot be changed if the '**Separations Manager**' is called since the '**New or Edit Page Setup**' dialog box.

It allows to create, delete and edit the styles.

In case of SDP Plugin, a style corresponds in fact to the selection of a dithering screen.

The **Harlequin RIP** contains many possibilities to proceed the dithering, but in case of SDP Plugin, it is necessary to use the specific screens provided by NIPSON.

To create a new style, click on '**New...**' button.

The following dialog box is displayed:



*Figure 4-57 New monochrome style*

- **Style name:** Choose a name for the style. In the case of SDP Plugin, the style corresponds in fact to the selection of a NIPSON dithering screen. It can be judicious to use the same name than dithering screen to facilitate the use in the Setup Page.
- **Color space:** In the case of SDP Plugin, **Monochrome** must be used.
- **Output format:** In the case of SDP Plugin, only **Monochrome** is possible.

Press on **Create**.

The edit style window is displayed then.

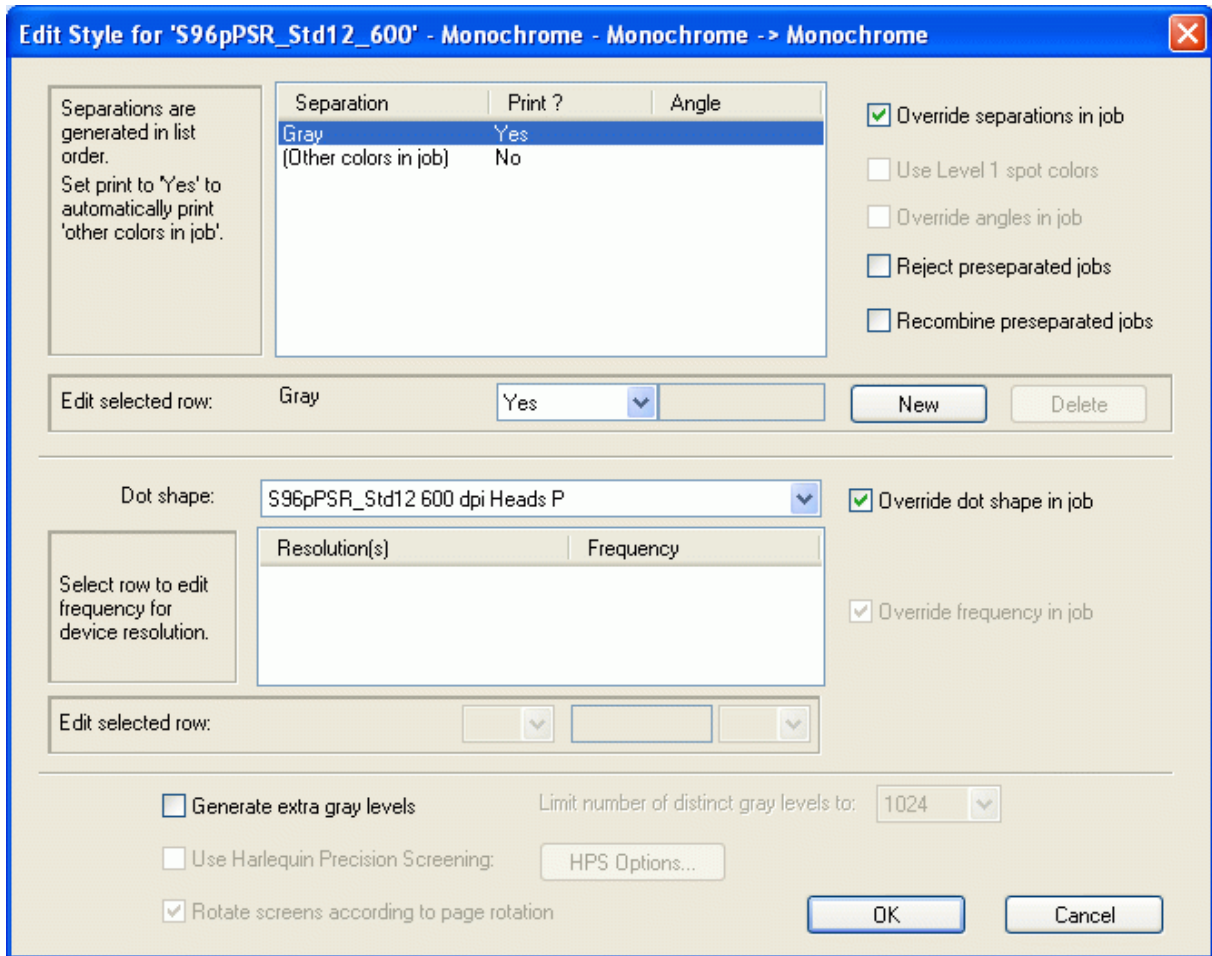


Figure 4-58 Edit style dialog box

Choose one of the NIPSON screens in **Dot shape** list, according to the characteristics given in the table to the following paragraph.

The selection of a NIPSON dithering screen disables some options of this dialog box (as indicated in the figure above), those which are not useful in this case.

Check, if it is not done by default the two buttons:

- **Override separation in job**
- **Override dot shape in job**

Let the other parameters with their default value.

**List of NIPSON screens to use for SDP Plugin**

**480 DPI MACHINES**

	<b>Nipson 75 Lpi</b>	<b>N7000 85 Lpi</b>
Standard	V75std	N85
Light	V75lit	N85L
Very Light		N85XL

**600 DPI MACHINES with type "C" heads**

	<b>85 Lpi</b>	<b>96 Lpi</b>				<b>106 Lpi</b>
		<b>Dark</b>	<b>Medium Dark</b>	<b>Standard</b>	<b>Light</b>	
Bayer				S96cB		
Bayer Modified		S96cBmod_Dark		S96cBmod		
Random	S85cRFT			S96cRFT	S96cRP	S106cRFT
Pseudo Random		S96cPSR_Dark8	S96cPSR_MDark12	S96cPSR_Std16	S96cPSR_Light20	
Hybrid	With this mode you can use all screens ( But we use it generally with the photographic image screen )					

**600 DPI MACHINES with type "P" heads**

	<b>85 Lpi</b>	<b>96 Lpi</b>			<b>106 Lpi</b>
		<b>Dark</b>	<b>Standard</b>	<b>Light</b>	
Bayer			S96pB		
Bayer Modified		S96pBmod_Dark	S96pBmod		
Random	S85pRFT		S96pRFT		S106pRFT
Pseudo Random		S96pPSR_Dark8	S96pPSR_Std12	S96pPSR_Light16	
Hybrid	With this mode you can use all screens ( But we use it generally with the photographic image screen )				

The choice of a screen is a little subjective. One can then proceed in the following way:

For the 480 dpi machines, the choice is limited. Choose the V75std or N85 standard screen according to the machine and pass to the paler versions if the result is not appropriate.

For the 600 dpi machines, choose first S96cPSR\_Std16 screen or S96pPSR\_Std16 screen (according to the printer heads) for documents with photographic images or S96cBmod screen or S96pBmod screen for documents with grayed zones. Other screens can then be tested if this first choice is not satisfactory. See also the documentation **ImageGuide\_Us.pdf** in the CD for more detailed informations.

#### 4.4.3 SDP composition Parameters for SDP (or EnhSDP) Plugin

Creation of parameters files for **SDP** Plugin is absolutely identical to the creation parameters files for **EnhSDP** Plugin. Refer to previous **paragraph 4.3.2 : SDP composition Parameters for EnhSDP (or SDP) Plugin**.

The only parameter of a composition parameters file which is not used in the case of **SDP** Plugin is parameter '**Print Quality Parameters File**' of the '**Imposition**' tab. In fact, in the case of **SDP** Plugin SDP, it is the **Harlequin RIP** which executes the dithering of the pictures by using the parameters of defined style (See the previous paragraph 4.4.2).

#### 4.4.4 SDP Plugin (device) configuration

The **Configure device** button of the **New Page Setup** (or **Edit Page Setup**) dialog box with an SDP Plugin selected, displays the following **SDP Plugin configuration** dialog box:

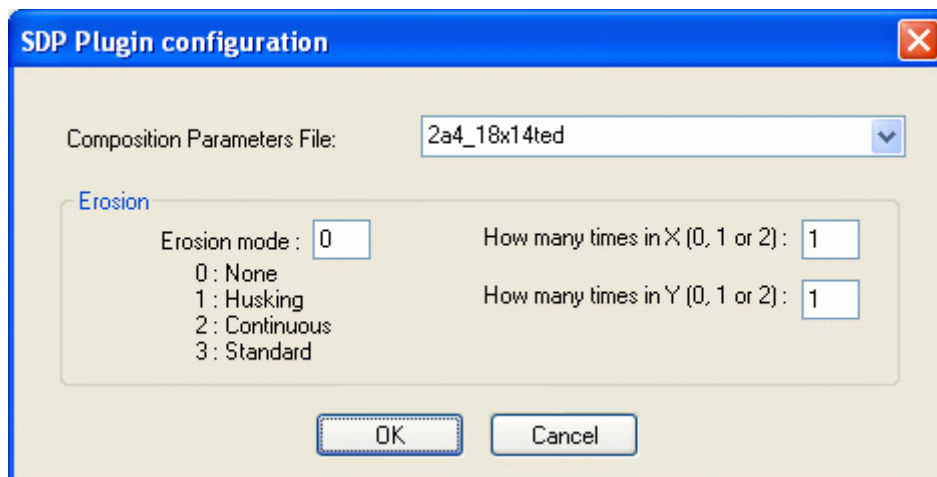


Figure 4-59 SDP Plugin configuration

- **SDP Composition Parameters File** allows to select the **.spf** parameters file to be used for the SDP job composition and for the request generation to **Nipson PrintServer** if necessary. The drop-down list gives the list of all the **.spf** files created using '**Composition parameters file Manager**' described in the previous paragraph 4.3.2.
- **Erosion:** allows to decrease the « blackness » of pages. Use Erosion only on 480 dpi machines. (This function is integrated in the 600 dpi machines).
  - . **Erosion = 0:** No erosion.
  - . **Erosion = 1:** 'Husking' erosion.
  - . **Erosion = 2:** Erosion ensuring monodots continuities.
  - . **Erosion = 3:** Standard erosion.
 If erosion is enabled, '**How many times in X**' and '**How many times in Y**' allow to define the number of passage of erosion in X and Y.

## 4.5 FONTS USING

With **NIPSON\_HarlequinRIP8.0r0 RIP**, **35 PostScript fonts** are presents. During rasterisation of a PS or PDF file, if a font used by this file does not belong to the default fonts, a Courier font is used if this withdrawal is authorized. If the configuration of Page Setup does not authorize the font withdrawal, then the rasterisation is stopped.

To solve this problem, 2 possibilities:

- Include the particular fonts in PS or PDF files to rasterise (at creation),
- Install these particular fonts (formats in PostScript pfa, pfb or in True Type ttf) in **NIPSON\_HarlequinRIP8.0r0 RIP** with item '**Install fonts**' in '**Fonts**' menu. See the example of installation in following paragraph.

For more details on the font installation, refer to chapter 11 of the user's manual '**oem\_manual.pdf**' of **NIPSON\_HarlequinRIP8.0r0**.

#### 4.5.1 Installation of a True Type font from Windows

As indicated above, use **'Install fonts'** item of **'Fonts'** menu.

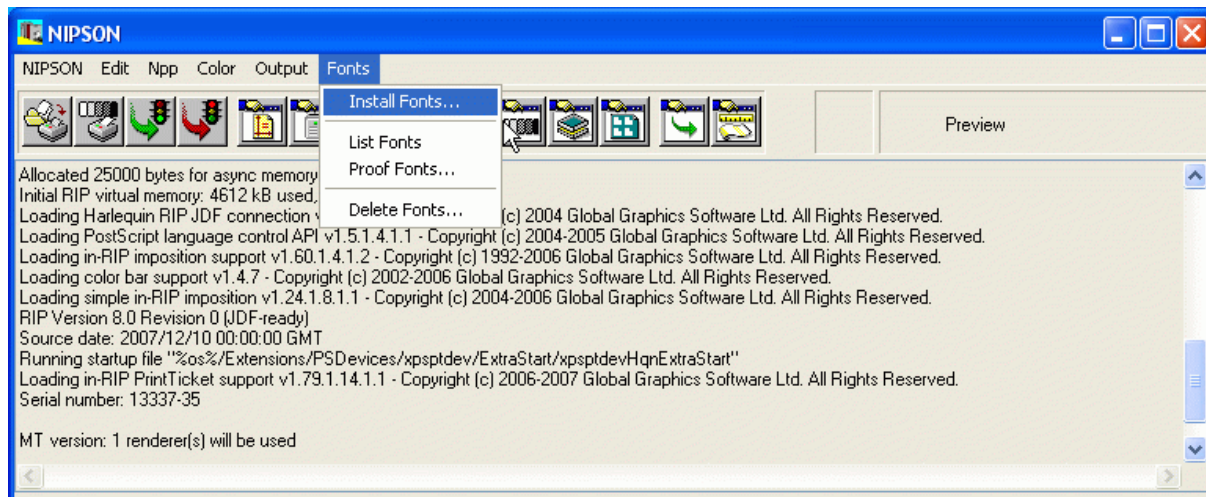


Figure 4-60 Access to Install fonts function

In dialog box **'Install Fonts'** displayed, select the directory containing the Windows fonts.

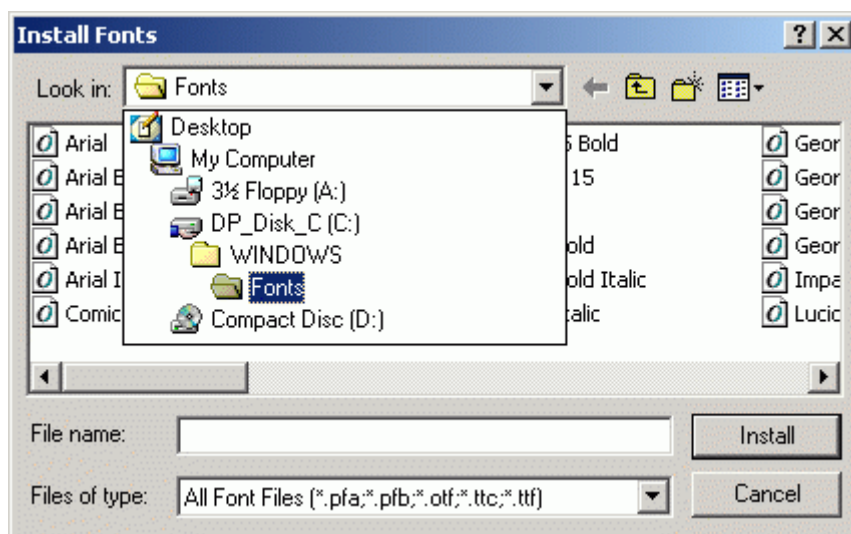


Figure 4-61 Selection of Windows fonts directory

To select the font to install, proceed as follows:

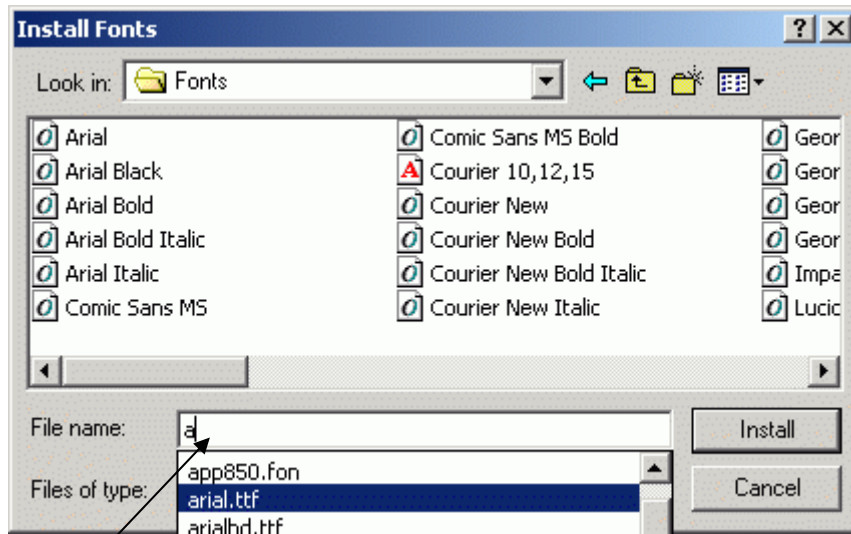


Figure 4-62 Selection of font

In '**File name**' field, enter the first letter of the font name to install and select the .ttf file, which appears in the list-box.  
For example here: arial.ttf.

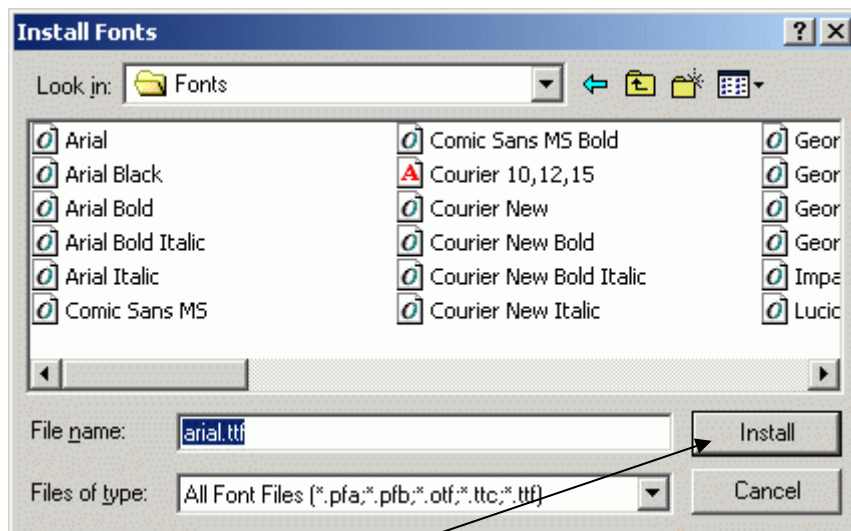


Figure 4-63 Starting the font installation

Click then on '**Install**' to start the installation.

The following messages are displayed in the RIP main window:

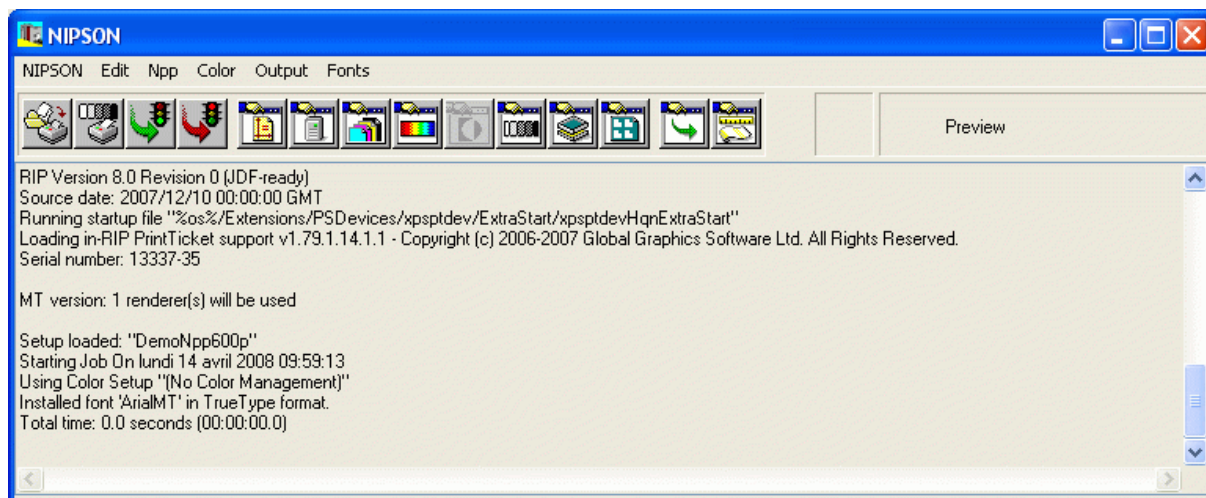


Figure 4-64 Font installed

**NOTE:** The **NIPSON\_HarlequinRIP8.0r0** RIP installs the **Arial** font under the name **ArialMT**, the **ArialMT** file must thus be renamed in **Arial**.

For that:

- Stop the **NIPSON\_HarlequinRIP8.0r0** RIP,
- Using Windows explorer, go to RIP directory '**SWFonts**', for example:  
**C:\Program Files\NIPSON\_HarlequinRIP8.0r0\SW\fonts**  
 and change the file name **ArialMT** in **Arial** as shown in following figures 4-65 and 4-66.

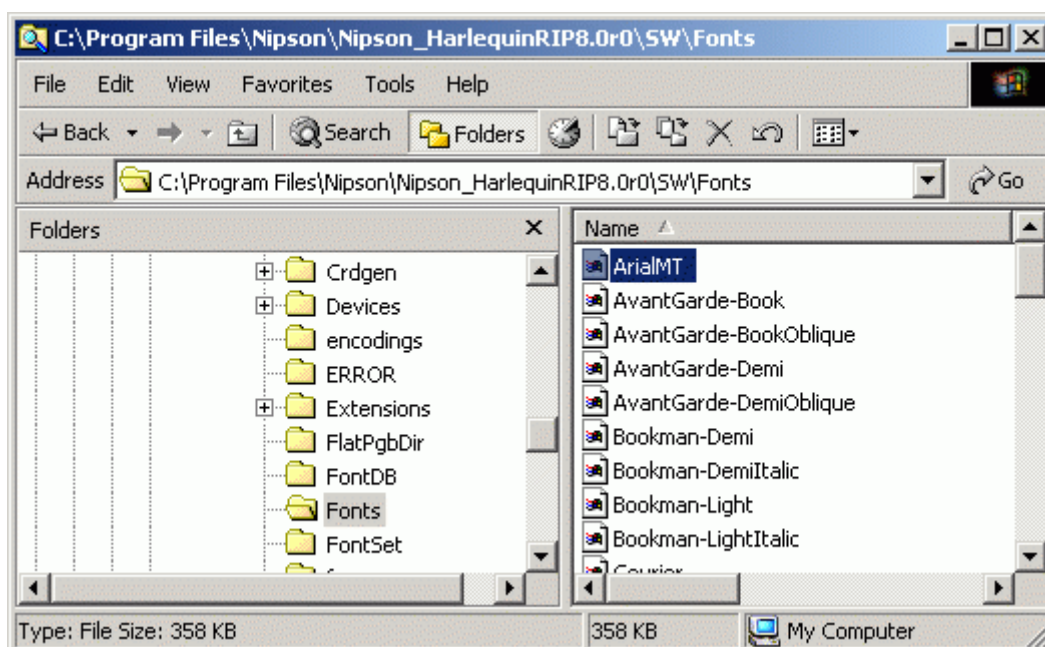
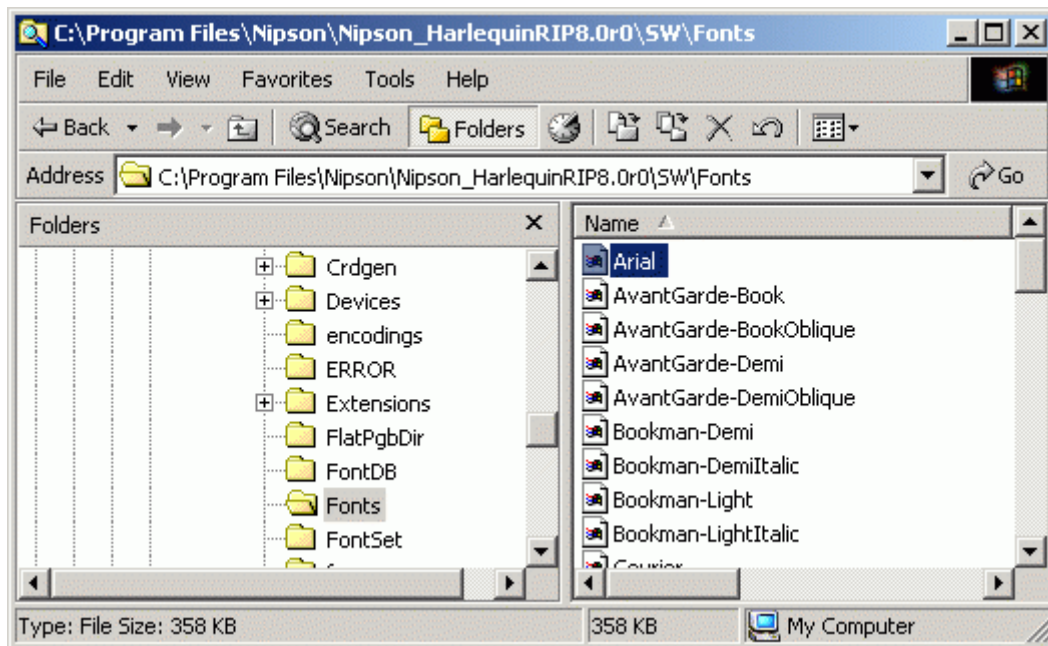


Figure 4-65 Font rename



*Figure 4-66 Font rename*

- Restart then the **NIPSON\_HarlequinRIP8.0r0 RIP**.

To visualize the font installed, use '**Proof Fonts...**' in '**Fonts**' menu:

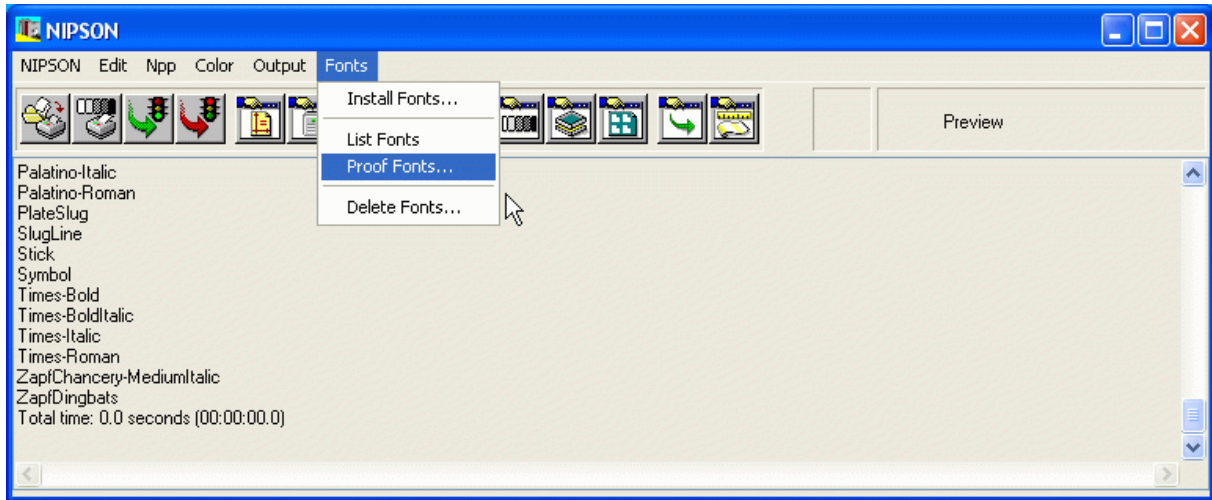


Figure 4-67 Font visualization

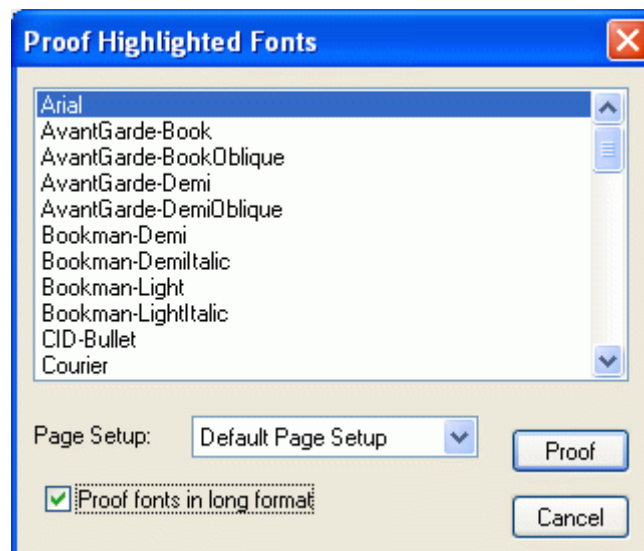


Figure 4-68 Selection of font to visualize

Select the font to visualize.  
 Select the **Preview** Page Setup.  
 To display more characters, check '**Proof fonts in long format**'.  
 Click on '**Proof**' button.

The font visualization is as following:



Figure 4-69 Font Visualization



## 5. Job processing (printing station configuration)

### 5.1 MANUAL PROCESSING

To start manually the job processing in NPP (or in SDP) for printing, use function **'Print File...'** as shown in figure below:

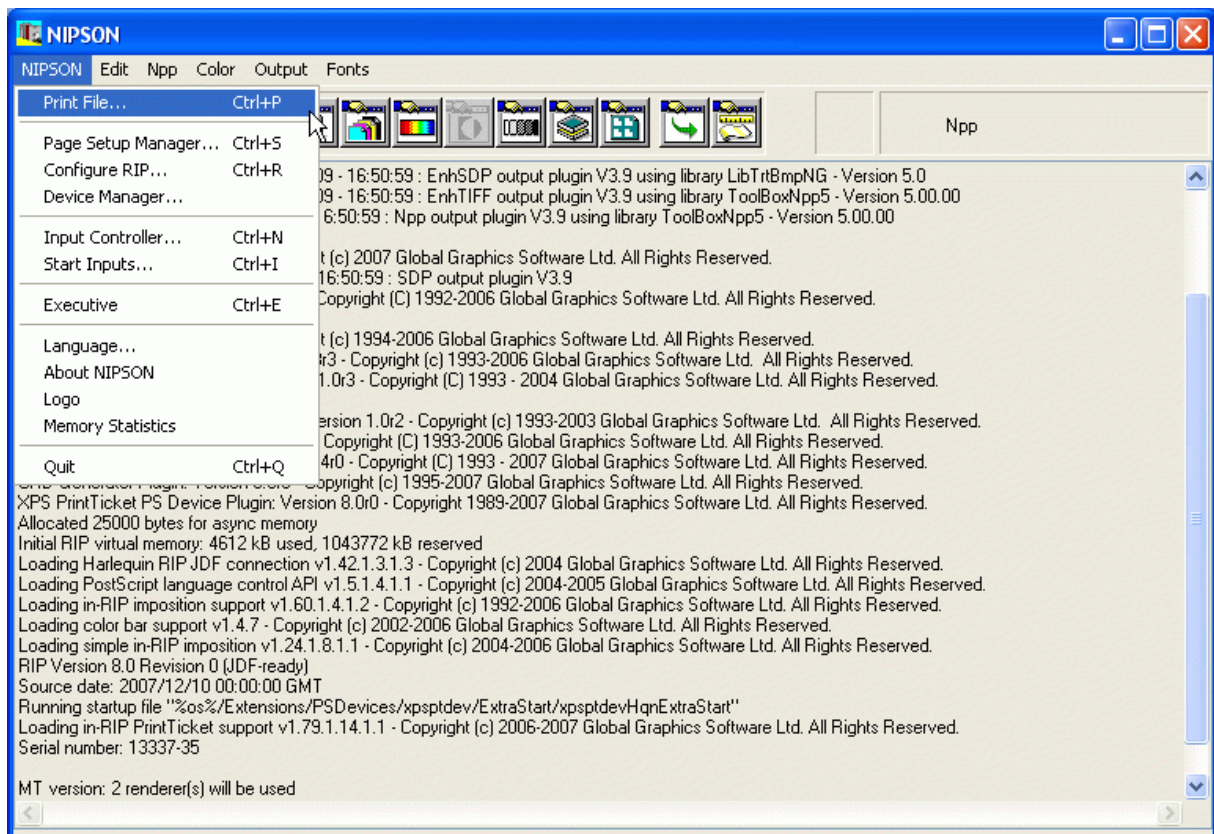


Figure 5-1 Main window of NIPSON\_HarlequinRIP8.0r0

Use the item **'Print File...'** in **'NIPSON'** menu, or use



button in the tool bar.

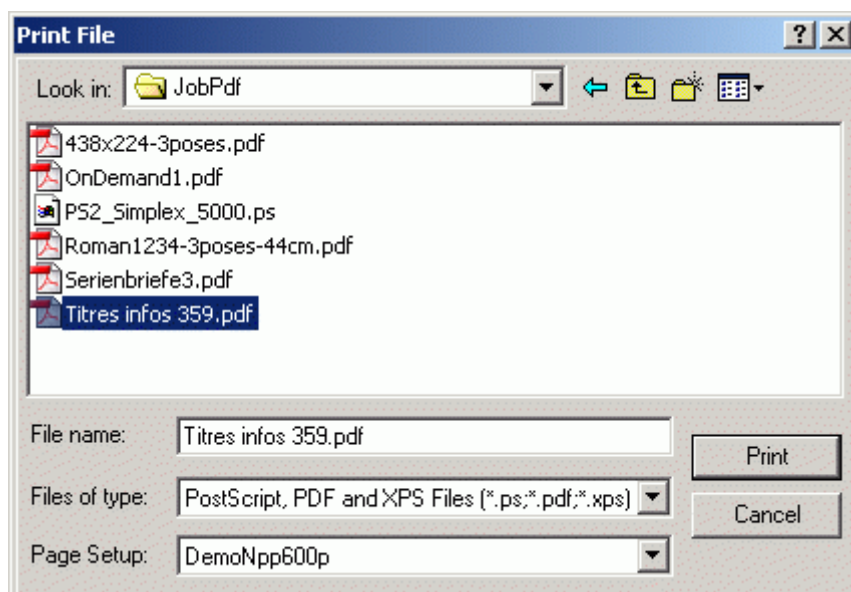


Figure 5-2 File printing

In this new window displayed:

- **'Files of type'** : Choose the type of input files (ps, eps, pdf...) to display them in the file list,
- **'Page Setup'** : Select the **Page setup** wished,
- **'File name'** : Select the file to print,
- **'Print'** : Starts the job processing.

## 5.2 AUTOMATIC PROCESSING

You can configure **NIPSON\_HarlequinRIP8.0r0** to print automatically files placed in one or several directory called **'HotFolder'**. This means that various users can write files into this directory. **NIPSON\_HarlequinRIP8.0r0** repeatedly checks the content of these directories during standby. When a new file is detected, it starts automatically the process of this file. When the file is processed, it is automatically deleted from the directory.

To define an input directory or **'Hotfolder'**, the tool **'Input Manager'** from **NIPSON\_HarlequinRIP8.0r0** is used. It allows to manage the **input channel**. The input channel type called **'SpoolFolder'** corresponds to operation **'HotFolder'** described above.

To define an input directory or **'Hotfolder'**, use the item **'Input Controller'** in **NIPSON** menu or



button in the tool bar.

The window **'Input Manager'** appears. This one allows to manage the list of the input channels. The input channels can be created, modified, deleted, enabled or disabled.

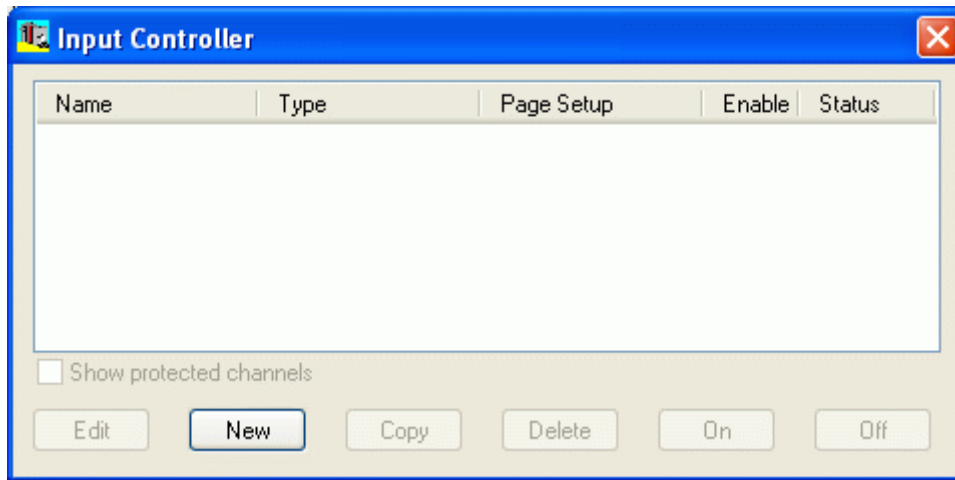


Figure 5-3 Input controller

Click on **'New'** to create a new input channel. The following window **'Input Channel Edit'** appears:

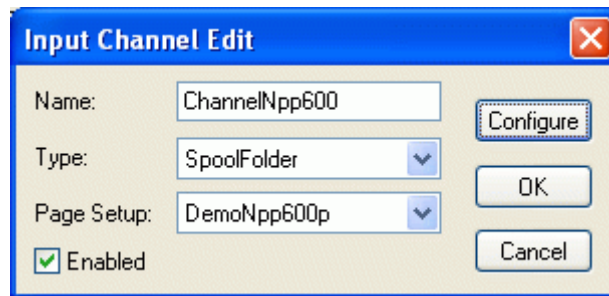
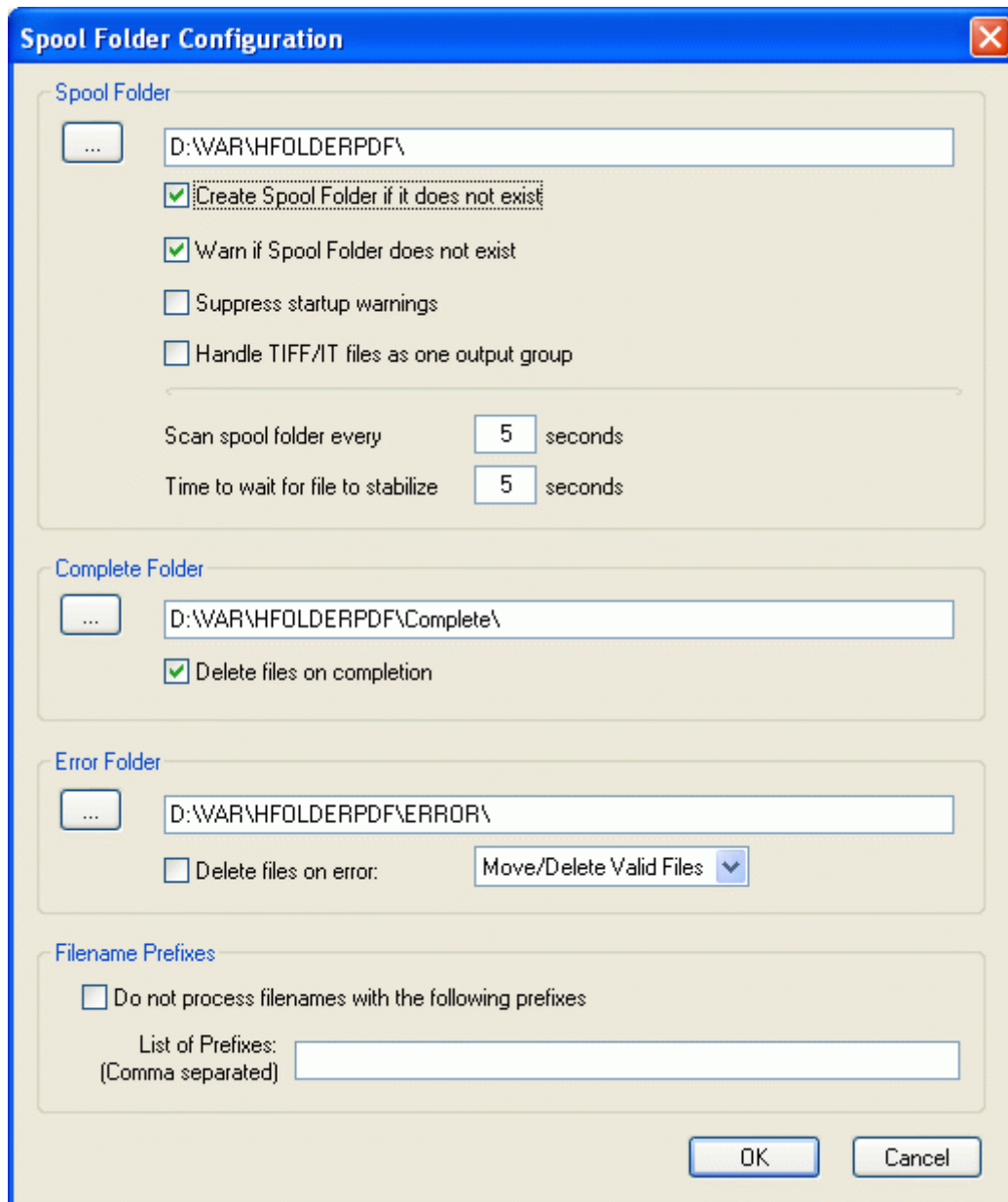


Figure 5-4 Edition of input channel

Inform the window elements as follows:

- **'Name'** : Give a name to the input channel,
- **'Type'** : In the list, choose for type **SpoolFolder**,
- **'Page Setup'** : Choose the **Page Setup** to process files of this input channel,
- **'Enabled'** : Check it to **Enabled** the input channel,
- Click on **'Configure'** to have a detailed configuration of the channel:

'**Spool Folder Configuration**' window appears. It allows to specify the complementary parameters of the spool folder you are creating or editing:



*Figure 5-5 Spool folder configuration*

The main parameter to enter is the input directory of the Spool Folder. Select this directory with '**Spool Folder**' button.

Click on '**OK**' to enable and close this window.

Click again on '**OK**' to enable and close the window '**Input Channel Edit**'.  
The new input channel appears in list of '**Input Controller**'.

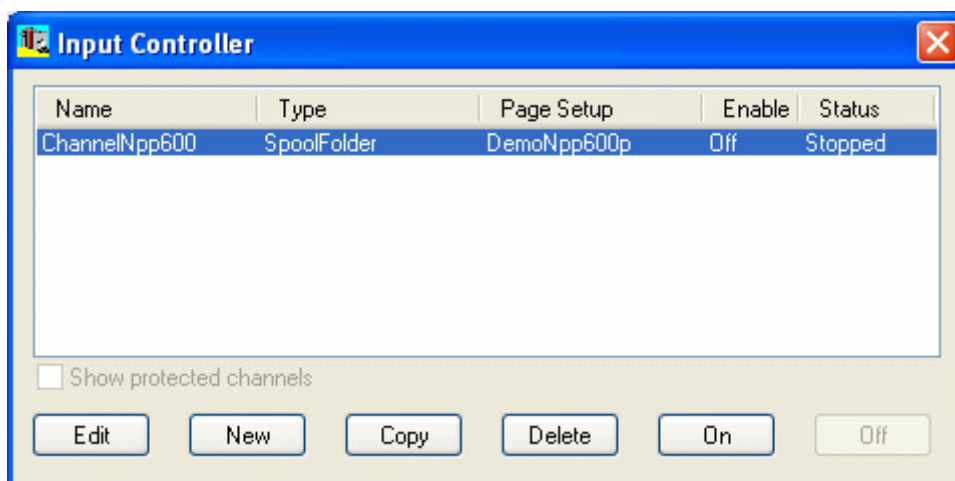


Figure 5-6 Input controller

To enable the automatic job processing of **NIPSON\_HarlequinRIP8.0r0**, use the item '**Start**



**Inputs**' in **NIPSON** menu or button in the tool bar.

The **NIPSON\_HarlequinRIP8.0r0 RIP** is then automatically ready to process any file coming from input channel.

To disable the automatic job processing of **NIPSON\_HarlequinRIP8.0r0**, use the item '**Start**



**Inputs**' in **NIPSON** menu or button in the tool bar.



## Appendix A Migration

In this new version of the **NIPSON\_HarlequinRIP8.0r0 RIP**, there is no migration tool allowing recovering the Page Setup or other settings of an old version.

Indeed, the purpose of this new version is to use new **NPP** and **EnhTIFF** Plugins, which use new Page Setup.

On the other hand, an old version can coexist with the new one on the same machine. It is not necessary to remove an old version to install the new one.



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